

MASTER OF SCIENCE IN ANALYTICS CLASS OF 2024

STUDENT RESUMES

On-campus interviews: January through March
Graduation date: May 1, 2024



Employers seeking recruiting assistance please contact:

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This document is available online at:

<https://go.ncsu.edu/resumes>

Dr. Michael Rappa, Director
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Updated April 16, 2024

MARCO ARELLANO

984-368-6986 | maarella@ncsu.edu | [Portfolio: marellanob.github.io](https://portfolio.marellanob.github.io) | [LinkedIn: marco-arellanob](https://www.linkedin.com/in/marco-arellanob)

Data scientist with a passion for communicating complex ideas to diverse audiences. Former producer experienced in leading several interdisciplinary teams to drive impactful stories and improve project development.

Technologies: R, Python (Pandas, Polars, Scikit Learn), SQL, Tableau, GitLab, GitHub

Statistical Concepts: Clustering, Time Series, Regressions Techniques, Machine Learning, Data Mining, Survival Analysis

Certifications: PCEP – Certified Entry-Level Python Programmer, Data Scientist with R Career Track - DataCamp

EDUCATION

NC State University, Institute for Advanced Analytics: Master of Science in Analytics

May 2024

Universidad de Lima: Bachelor of Arts in Communication and Media Studies

December 2016

PRACTICUM

Daimler Trucks North America

August 2023—Current

Communication Lead

- Driving business insights on vehicle repairs from over 100 million rows of customer data by adapting quickly to sponsor's industry knowledge and tools in Python and Polars.
- Differentiating customer vehicle profiles based on geospatial features by conducting K-Means and DBSCAN clustering on truck data.
- Providing new insights on vehicle repairs due to geographical effects for future customers through GAM, random forest, and XGBoost models.
- Facilitating team communication and creating conducive environments.

WORK EXPERIENCE

Freelance

Lima, Peru

Independent Audiovisual Producer

September 2017—January 2023

- Assessed in-bound projects and designed pre-production schedules that ensured smooth development of logistics, crew selection and hiring, and timely delivery for 60+ projects.
- Led a diverse 30+ member filming crew and negotiated filming days with 8 cross disciplinary teams.
- Managed project budgets of over \$10,000, ensuring adherence to financial plans and prudent spending.

Pan-American and Parapan-American Games Lima 2019, COPAL

Lima, Peru

Venue Photo Supervisor, Tennis, Golf, and Ceremonies (Opening and Closing)

April 2019—September 2019

- Directed press operations, including briefing a 50+ member press pool, training, and assigning assistants to photographers based on technical expertise for 47 game venues.
- Led and provided strategic guidance to a team of 40+ photo operations staff, offering expertise in technical and crisis management decisions at their respective headquarters.

Marsh Rehder, Marsh McLennan Companies: The largest risk management company in Peru

Lima, Peru

Marketing Internship

June 2016—January 2017

- Established new communications platforms for 120+ health insurance clients, impacting 85% of our clients.

PROJECTS

Customer Service Survey Report - Radio Ambulante Studios (NPR)

- Profiled and visualized 5000+ radio listeners using text analytics techniques in R and Tableau to support grant funding for client company.

Advance Trials Turfgrass Dashboard, NC State University Turfgrass Breeding and Genetics

- Developed a Tableau dashboard to evaluate performance for 3000+ turfgrass lines to select the superior lines for the next trial phase.

Human Development Index (HDI) and the 2021 election votes in Perú

- Evaluated the potential HDI-voting relationship in the 2021 Peruvian election using R.

Times Series of Covid-19 in Perú

- Developed an interactive time series of Covid-19 in Peru from March 2020 to March 2021.

Cinoon Bak

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PROFESSIONAL SUMMARY

Disciplined and versatile solution-finder with expertise in utilizing statistical models to extract valuable perspectives from large datasets. Proficient in translating intricate findings into feasible implementations for diverse audiences while fostering effective teamwork and collaboration.

Software: Python, R, SQL, Tableau, Power BI, SAP

Statistical Concepts: ANOVA, Linear Regression, Regularized Regression, Logistic Regression, Time Series, A/B Testing, Data Mining, Machine Learning, Text Analytics, Survival Analysis

Certifications: PCEP – Certified Entry-Level Python Programmer, Google Data Analytics Certification

EDUCATION

MS in Analytics

May 2024

Institute for Advanced Analytics, NC State University, Raleigh, NC

BBA in Management Information Systems, *cum laude*

May 2023

Abilene Christian University, Abilene, TX

- Division 1 Academic All-Conference baseball player

PRACTICUM

OneMain Financial

August 2023 — Current

Technical Lead

- Segmenting 250,000+ credit card customers by leveraging credit attributes, application features, and transaction history to refine marketing and product offerings
- Designing and engineering features from card transaction data to enhance segmentation and predictive modeling capabilities
- Developing a predictive model in Python to forecast customer credit utilization using machine learning algorithms and advanced statistical methods
- Analyzing personal loan data to discern key drivers influencing customer retention and refinancing

PROFESSIONAL EXPERIENCE

Yoon Hyung Jun Training Center (YTC)

Seoul, South Korea

Data Analyst Intern

May 2021 — August 2021

- Engineered 150 Tableau dashboards for athletes, quantifying their individual performance metrics and providing a visualized representation of accomplishments
- Conducted A/B testing for the e-commerce store, designing and implementing experiments to optimize website performance, increase conversion rates, and increase sales by 12%
- Cleaned and processed data using SQL, ensuring streamlined accessibility for coaches and strength trainers, facilitating smoother data utilization

DATA PROJECTS

Publisher of Data Science Publications on Medium; Towards Dev and Better Programming

[Whoop Data Analysis](#)

- Deployed a decision tree using Python to analyze personal fitness data, resulting in the creation of visual representations illustrating a set of rules to elevate athletic performance

[Apple Watch vs. Whoop](#)

- Conducted a paired t-test using R to substantiate the statistical difference within the data across two fitness trackers

[Austin Housing Price Forecast](#)

- Executed time series forecasting using Python to calculate the return on investment within the future housing market in Austin, Texas

Parker Baker

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PROFESSIONAL SUMMARY

An analytical problem solver skilled in Python, R, statistical modeling, and project management. Effective communicator translating data insights into actionable strategies.

Programming: Python, R, SQL | Beginner in SAS

Statistical Concepts: Machine Learning Models, Time Series Analysis, Regression Analysis

Certifications: PCEP – Certified Entry Level Python Programmer

EDUCATION

NC State University, Raleigh, NC

Master of Science in Analytics

May 2024

Bachelor of Science in Textile Engineering; Minor in Statistics

May 2023

PRACTICUM

Government Agency | Scrum Master

Aug 2023 — Current

Serve as Scrum Master for team of 5 to ensure Agile methodologies are successfully implemented.

- Implement clustering algorithms in Python to segment longitudinal data on societal characteristics.
- Develop a dashboard with Plotly Dash showing geo-political data to communicate insights.
- Utilize GitHub as version control and collaboration platform to manage and track code changes while facilitating effective team collaboration and code review.
- Develop and test machine learning models in Python to predict political and security changes.

NCSU Textiles College | Practicum Project with Phifer

Aug 2022 — May 2023

Worked with a small team and program liaison from Phifer to design, develop, and test a Solar Harvesting Yarn prototype, enabling Phifer to perform an initial investigation into the technology.

- Generated prototypes and executed them through SolidWorks, resulting in aids to manufacturing.
- Utilized a GANTT chart and other project management skills to oversee and organize project.
- Learned Scanning Electron Microscope software to verify material deposition, ensuring quality.
- Conducted design experiments to rigorously assess and validate the effectiveness of the product.

PROFESSIONAL EXPERIENCE

NC State University

Undergraduate Research Assistant

Raleigh, NC

Jun 2022 — May 2023

Developed a robust data acquisition system by collaborating with faculty to monitor and mitigate firefighter exposure to hazardous particulate matter.

- Assisted faculty by helping develop and debug a Python-based serial device driver.
- Applied SolidWorks to design and 3D print a specialized housing device for an integrated sensor.
- Utilized Python and R for systematic analysis to format data from a data acquisition system.
- Initiated steps towards developing a predictive model, beginning the process to enhance firefighter safety based on data-driven insights.

T3 Automation

Control Systems Engineering Technician

Morehead City, NC

Aug 2017— Feb 2021 (Seasonally)

Diligently maintained stringent quality control during control panel assembly and wiring, consistently verifying their precise functionality through comprehensive testing.

- Achieved quality control through rigorous checks, yielding error-free control panels.
- Worked on a team to assemble multiple control panels from layout to final product.

Omry Brewster

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PROFESSIONAL SUMMARY

Detail-oriented problem solver well-versed in statistical modeling, programming, and data visualization. Eager to combine mathematical background with analytical knowledge to solve real-world problems in professional settings.

Programming: R, Python, SQL

Statistical Concepts: Linear Regression, Logistic Regression, Data Mining

Certification: PCEP - Certified Entry-Level Python Programmer

EDUCATION

North Carolina State University - Raleigh, NC
Master of Science in Analytics

May 2024

Bachelor of Science in Applied Mathematics - Financial Concentration
Minor: Economics

May 2023

PRACTICUM

U.S. Federal Government Agency
Communication Lead

August 2023—Current

- Implement clustering algorithms in Python to segment longitudinal data on humanitarian and societal characteristics.
- Design a dashboard with Plotly Dash showing geo-political data to communicate insights to stakeholders.
- Utilize GitHub as a version control and collaboration platform to manage and track code changes while facilitating effective team collaboration and code review.
- Develop, train, and test machine learning models in Python to understand and predict political and security changes.

PROFESSIONAL EXPERIENCE

NC State University Data Science Academy
Course Collaboration Leader

Raleigh, NC
August 2022—May 2023

- Conducted weekly office hours to assist students with assignments using R and Python.
- Delivered data science support to 200+ students through the academy-wide discussion board.
- Volunteered at campus events to spread awareness about the Data Science Academy and its offerings.

VisionPoint Marketing
Data Analyst Intern

Raleigh, NC
May 2022—May 2023

- Utilized Google Analytics platform to extract valuable insights from client enrollment data.
- Developed tags and triggers in Google Tag Manager to track conversions on client webpages.
- Employed Google Data Studio and Looker to create customized dashboards upon client request.

NC State University Housing
Community Assistant Coordinator
Community Assistant

Raleigh, NC
May 2022—May 2023
July 2020—May 2022

- Mentored and coached 10+ Community Assistants (CA's) to deliver quality customer service to visitors and residents.
- Managed key and fob inventory, promptly addressing key-related issues as directed by Desk Supervisor.
- Served as a resource hub for 1200+ students inquiring about housing resources on and off campus.
- Worked collaboratively with other CA's, Resident Assistants, and Housing Staff to ensure a positive, safe, and inclusive atmosphere was created and maintained.

John Brown

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Data professional with experience in statistical analysis using R and Python. Proficient in data manipulation, presentations, and problem-solving.

Programming: R, Python, SQL

Software: AWS

Certifications: PCEP – Certified Entry-Level Python Programmer

EDUCATION

Master of Science in Analytics

May 2024

Institute for Advanced Analytics, NC State University

Bachelor of Science in Biology, Minor in Chemistry

August 2020

University of North Carolina at Chapel Hill

PRACTICUM

The United States Department of Education

Technical Lead

- Clean and process 300K+ datapoints to minimize memory usage while maintaining usability.
- Implement **K-prototypes** and **KNN** techniques to construct social networks by connecting individuals across 30+ attributes.
- Deliver well-documented and reproducible **Python code** to client, which was used to create new network data for 45 million+ customers.
- Estimate the effect of one's network on 5 long-term student outcomes using **logistic regression**, **extreme gradient boosting**, and **neural networks**.

EXPERIENCE

University of North Carolina at Chapel Hill School of Medicine

Chapel Hill, NC

Research Technician - Journey

August 2020—January 2023

Designed and executed experiments and communicated results. Collaborated with lab members and UNC faculty members, kept meticulous documentation, stayed informed about relevant research, created presentations and posters, wrote manuscripts, and conducted statistical analyses.

- Designed bioinformatics experiments and processed **high-dimensional data** using UNC's **Linux-based computing cluster**.
- Conducted advanced statistical analysis using **generalized linear models** in **R**, processing **800 million+ data points**. This work is highlighted in the paper:
 - [Lysine 36 of Drosophila histone H3.3 supports adult longevity](#)
- Authored 3 publications and delivered 5 conference presentations, effectively communicating research findings to diverse audiences. Notable poster presentations include:
 - Symposium on RNA Biology XIV – NC Biotechnology Center
 - Genome Organization & Nuclear Function conference – Cold Spring Harbor, NY

Colorado State University

Fort Collins, CO

Research Fellow

June 2019—August 2019

National Science Foundation (NSF) sponsored research internship. Conducted research on the regulatory role of long noncoding RNAs in pluripotency (stem cells).

- Wrote a detailed research report and created a scientific poster to present at a CSU conference.
 - Won the People's Choice award for the best poster.
- Employed cell culture, protein analysis, and molecular cloning to investigate research questions.
- Validated discoveries using two-sample t-tests.

Shang-Qian (Eric) Chen

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PROFESSIONAL SUMMARY

Technical skills: Python, SQL, R, AWS, Spark, BigQuery, Tableau

Data skills: Machine Learning, Neural Network, Time Series Analysis, Logistic Regression, Clustering, Survival Analysis, Random Forest, Gradient Boosting, Classification

Certifications: PCEP—Certified Entry-Level Python Programmer

EDUCATION

Master of Science in Analytics

May 2024

Institute for Advanced Analytics, NC State University, Raleigh, NC

Bachelor of Science in Management Information Systems

Jun 2020

National Chengchi University, Taipei, Taiwan

PRACTICUM

Hitachi Energy

Sep 2023—Current

Technical Lead

- Ensure practicum data was successfully transmitted to server and communicate system updates with IT department and 4 team members to ensure security compliance.
- Create and train multiple machine learning models in Python on 1.5 million+ observations of time point data.
- Predict the characteristics of power transformers from 17 countries using ensembles of time series models.
- Present findings to Hitachi Energy industry experts with visualization tools, including Tableau, *Matplotlib*, and *ggplot2*.

PROFESSIONAL EXPERIENCE

Deloitte

Taipei, Taiwan

Risk Advisory Consultant

Jan 2023—Jun 2023

- Consolidated financial information and supply chain data such as inventory details by cleaning and manipulating dataset of 5 million+ observations with Python and Excel.
- Conducted industry risk analysis on 1000+ companies and gave presentations to clients on insights to identify potential risks involved in third-party software deployment.
- Mentored 2 interns in tasks such as exploratory data analysis, gathering essential information, preprocessing data, visualizing statistics, and generating reports.
- Investigated clients' IT environment for adherence to regulatory compliance and provided strategies to mitigate risk and minimize costs involved in software implementation.

LRS

Taipei, Taiwan

Consultant

Dec 2021—Dec 2022

- Provided recruiting consultancy and services by performing industry analysis, creating visualizations, and presenting results to current and potential clients.
- Negotiated client contracts for improved terms and conditions, billing rate, and service minimum charges.
- Collaborated and managed 20+ clients directly to provide immediate solutions for business partners to ensure customer satisfaction.

Deeya Deepak

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PROFESSIONAL SUMMARY

Results-driven problem solver skilled at leveraging statistical modeling to extract actionable insights from complex datasets and translating abstract thinking into practical applications for audiences with varied technical backgrounds.

Software: R, Python, SAS, SQL, Tableau, Power BI

Statistical Concepts: Time Series, Logistic Regression, Survival Analysis, Machine Learning

Certification: PCEP – Certified Entry-Level Python Programmer

EDUCATION

NC State University, Raleigh, NC

M.S. in Analytics, Institute for Advanced Analytics

May 2024

B.A. in Political Science, *Magna Cum Laude*, William J. Block Public Service Award

May 2023

PRACTICUM

Trillium Health Resources

Sep. 2023—Current

Scrum Master

- Analyzing claims, client, and clinician data to assess the impact of transportation access and environmental contaminants on healthcare usage of 28 counties in North Carolina.
- Compiling 60 tables containing over 1100 features into a database for analysis using extraction, transformation, and loading (ETL) processes.
- Cleaning, analyzing, and visualizing data using R, PostgreSQL, and RShiny.

PROFESSIONAL EXPERIENCE

American International Group (AIG)

Houston, TX

General Insurance Travel Intern

Jun. 2022—Aug. 2022

- Created, implemented, and facilitated a security-related webcast on Return to International Travel for AIG's Travel Guard in conjunction with their Travel Security and Operations Team.
- Updated and improved Travel Guard Travel Safety websites for women, students, and LGBTQ travelers.
- Proposed an approved special topics podcast series focused on high-profile/special events to be facilitated via a newsletter campaign launched in 2023.

NC State Office of Parents and Families Services

Raleigh, NC

Parent Ally / Lead

Dec. 2020—May 2023

- Drafted university-wide communications sent to over 45,000 people; crafted posts and maintained social media channels, increasing engagement during tenure of position.
- Cleaned and sorted over 5,000 rows of subscriber data to create specific mailing lists for regional communications.
- Organized and executed signature events (Parents and Families Weekend and Spring Fling).

RELEVANT PROJECTS

The Madden Curse

Jan. 2023—Apr. 2023

- Utilized Python to web scrape, gather data, and analyze a random sample of players to test whether being featured on the cover of EA Sports' Madden NFL game results in that player having a bad season or getting injured the following year.

SAM DOTSON

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PROFESSIONAL SUMMARY

Personable problem solver capable of applying data analysis techniques to drive positive change through accessible and actionable data decisions. Skills and awards include the following:

Software: Python, R, SAS, SQL, Tableau

Awards: Mathews Medal, Chancellor's Creating Community Nominee

EDUCATION

North Carolina State University, Raleigh, NC

Master of Science in Analytics, Institute for Advanced Analytics May 2024

Bachelor of Science in Business Administration: IT Concentration, *with honors* May 2023

- Park Scholar
 - Awarded a highly selective, 4-year merit-based scholarship on outstanding accomplishments and potential in scholarship, leadership, service, and character
- Leadership Experience: Distinguished Speakers Committee, Chair | LDP, Leadership Coach
- Service Experience: Service Raleigh, Site Leader | NCSU, University Ambassador

PRACTICUM

Exovera

August 2023 – Current

- Identify signals of influence from one country to another using socio-political data
- Utilize Python to analyze 10 GB of text data, including media summaries and raw content written in a foreign language
- Perform correlative analyses in R using time lagged cross correlation and dynamic time warping
- Build predictive models using regularization techniques to forecast events and messaging
- Manage presentation and data visualization deliverables for the sponsor and faculty

PROFESSIONAL AND VOLUNTEER EXPERIENCE

Park Under-Resourced Assistance (PURA)

Founder, Current President

Raleigh, NC

August 2020 – Current

Lead a program and team of over 60 members that aids under-resourced applicants for a premier scholarship with direct outlets to current scholars and other resources including application assistance, Tier 1 outreach, and data collection for further geological insights.

- Increased total Park Scholarship application submissions by 75% from using collected data to provide evidence for removing high school endorsements to lower the barrier for under-resourced applicants

NC State Wellness and Recreation

Marketing Assistant, Team Lead

Raleigh, NC

September 2021 – May 2023

Managed all public media platforms including Instagram, Twitter, and the website for WellRec in collaboration with a team of graphic designers and photographers.

- Queried engagement data using SQL to provide insights for data-driven decision making
- Increased engagement on Instagram by 300% with the use of a student diversity plan
- Awarded Marketing Assistant of the Year in 2022 after first year on the team

NGOZI EMEH-FESTUS

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PROFESSIONAL SUMMARY

Coded, launched, and managed highly technical web and mobile products; reversed declining performances, increased customer acquisition and retention, stimulated year by year revenue growth.

Technical skills: Python, R Programming, SQL, Machine Learning, AWS, AB Testing, JIRA

EDUCATION

Master of Science in Analytics May 2024
Institute for Advanced Analytics, NC State University, Raleigh, NC

Master of Business Administration April 2009
University of Buckingham, United Kingdom

Bachelor of Science in Economics June 2006
University of Uyo, Nigeria

PRACTICUM

FIFTH THIRD BANK

Technical Lead

- Clean and analyze account-level data for 3 million+ households to compare deposit information across 1000+ branches.
- Perform geospatial analysis to construct and deploy a model for identifying optimal branch locations, comparing among logistic regression, explainable boosting machine, decision tree, and others.
- Utilize Python to identify key performance metrics from 120+ variables and curate a set of custom engineered features that predict branch success.
- Design and develop a Tableau dashboard to provide stakeholders actionable insights into a branch's performance.
- Work collaboratively under an Agile framework to accomplish project goals.

PROFESSIONAL EXPERIENCE

SANCOJ Lagos, Nigeria
Lead Software Product Manager January 2017—June 2023

- Grew yearly active users 1000% by adding Pidgin English language option to the app.
- Created from scratch an AI strategy for predicting career success. Influenced the collection of datasets of 50,000 volunteers for training.
- Converted 22 person on-site team to 4 remote teams, cutting down projected revenue loss because of COVID-19 pandemic by 31%.

INTERNSHIP

ESUPPLY Ontario, Canada
Queens-Mitacs BSI (Remote) September 2021—January 2022

- Predicted the optimal franchise fees and life-time value of each franchisee with linear regression model.
- Discovered and corrected 49% ecommerce bounce rate using A/B testing.
- Utilized clustering techniques to develop geographically based franchise slots.

JAIYE EPEGA

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PROFESSIONAL SUMMARY

Skilled communicator utilizing advanced statistical modeling to influence business decisions effectively. Leveraging a background in real estate, adept at bridging the gap for audiences with diverse technical knowledge and rendering complex insights accessible.

Software: SQL, Python, R, Tableau

Statistical Concepts: Time Series, Regression, Data Mining, Survival Analysis, Machine Learning

Certifications: PCEP – Certified Entry-Level Python Programmer,
Product Management - BrainStation

EDUCATION

Master of Science in Analytics

May 2024

Institute for Advanced Analytics, NC State University, Raleigh, NC

Bachelor of Science in Biomedical Engineering

May 2018

Florida Institute of Technology, Melbourne, FL

PRACTICUM

Elevate

August 2023—Current

Technical Lead

- Serving as a liaison between the IT department and the team; troubleshooting IT-related issues.
- Collaborating in a team of 5 to understand the temporary deterioration of specific channels by explaining and predicting charge-off rate.
- Leveraging statistical methods and machine learning techniques on extensive credit data with over 5000 variables and 65000 customer loans using Python and SQL.
- Presenting analytical findings on charge-off predictions and developing potential key risk indicators (KRIs) to mitigate future deterioration in the refinance sector.

PROFESSIONAL EXPERIENCE

Bando Investment Group Ltd

Bethesda, MD

Sales Consultant

September 2020—November 2022

- Worked in a high intensity startup environment and wore many hats performing duties as an IT support, customer success manager, and sales associate.
- Utilized Excel to create an automated accounting system that led to increased customer satisfaction with sales meetings; provided clear data visualizations, which boosted efficiency by reducing the duration of sales meetings by 50%.
- Addressed clients' needs while collaborating with the developer and architect to deliver each customer's desired product.
- Managed and responded to over 500 incoming inquiries across multiple platforms: development's website, incoming calls, and social media account.
- Successfully sold half of my assigned development (21 home-sites) pre-construction with an average purchase price of \$1.6 million dollars.

Myles Epstein

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PROFESSIONAL SUMMARY

A self-motivated data scientist who is well versed in translating complex relationships into visualizations to allow all audiences to understand data-driven conclusions. Thrives in fast-paced and dynamic cross-functional environments where curiosity and creativity are encouraged.

Software: R, Python, SQL

Statistical Concepts: Data Visualization, Logistic Regression

Certification: PCEP – Certified Entry-Level Python Programmer

EDUCATION

Master of Science in Analytics

May 2024

Institute for Advanced Analytics, NC State University, Raleigh, NC

- NCAA Division 1 student-athlete competing in Track and Field

Bachelor of Arts in Mathematical Data Science

June 2023

Dartmouth College, Hanover, NH

- 4-time medalist at Ivy League Track and Field Championships in 60m, 200m, and DMR
- Team USA representative at Maccabiah Games in Jerusalem, Israel in July 2022

PRACTICUM

ELEVATE CREDIT INC.

September 2023—Current

- Collaborating with a team of 5 to understand the recent deterioration of Elevate's refinance sector by explaining and predicting charge-off rate
- Leveraging statistical methods and machine learning techniques on extensive credit data with over 5,000 variables and 65,000 customer loans using Python and SQL
- Presenting analytical findings on charge-off prediction and developing potential key risk indicators (KRIs) to mitigate future deterioration in the refinance sector

PROFESSIONAL EXPERIENCE

CIRCA

Business Operations Intern

Portland, Maine (Remote)

June 2022—September 2022

- Developed and managed multivariate financial risk models using R to determine appropriate capital requirements to insure against late payments and customer defaults
- Conducted competitive analysis of flexible rent payment industry to identify and prioritize new products and asset classes for growth
- Assisted in the creation of policies and procedures for onboarding new employees

SATURN TECHNOLOGIES

Network Operations Intern

New York, NY (Remote)

August 2020—December 2020

- Served on 4-person team responsible for managing and updating a dynamic data feed of class schedules for all participating high schools on the social networking platform
- Analyzed internal data, including app usage and retention rates, to generate insights on key performance metrics for each school
- Created data filters on social media applications to monitor news flow related to events and updates at each school

Violet Evans

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Analytical problem solver with a strong mathematical background, proficient in statistical predictive modeling, and skilled at translating collaborative insights into valuable information.

Programming: Python, R, SAS 9.4, SQL

Certifications: PCEP— Certified Entry-Level Python Programmer, AWS Certified Cloud Practitioner, SAS Certified Associate: Programming Fundamentals Using SAS 9.4, Microsoft Office Specialist Certificate, Chinese Proficiency Test (HSK) Level VI

Languages: English (native/bilingual), Mandarin Chinese (near-native/bilingual)

EDUCATION

Institute for Advanced Analytics, NC State University, Raleigh, NC

May 2024

Master of Science in Analytics

The University of North Carolina at Chapel Hill

December 2022

Bachelor of Science in Public Health in Biostatistics, Bachelor of Arts in Chinese, Minor in Mathematics

Graduate with Distinction, Dean's List, Buckley Public Service Scholar, Carolina Research Scholar

- Director of the Duke-UNC China Leadership Summit, a \$15k+ conference with 15 US-China relations experts, achieving a 175% surge in student delegate attendance compared to prior years.

PRACTICUM

Antares Audio Technologies (Auto-Tune®)

Scrum Master

August 2023—Present

- Employing Python, R, and SQL to process, clean, and analyze a dataset of approximately 4GB, spanning 15 tables and containing 40 million rows of customer data.
- Enabling proactive identification of at-risk customers and discovering key churn-contributing factors through a machine learning model for customer churn analysis.
- Engineering a customer lifetime value (CLV) model to assess product performance, promotion success, and customer loyalty, enhancing data-driven decisions for optimizing long-term retention efforts.
- Segmenting customers to drive personalized marketing and product bundling strategies.
- Facilitating bi-weekly sprints, leading Daily Scrums, and ensuring the team's adherence to the Agile Project Plan.

EXPERIENCE

CVS Health: Kidney Care

Remote

Health Equity Team Intern

June 2022—August 2022

- Crafted a nutrition roadmap to tackle food insecurity and formulated a corresponding business case, offering the potential to greatly benefit hundreds of end-stage renal dialysis patients.
- Curated content for the Health Equity Hub, an internal Sharepoint resource to support future work.
- Created an extensive repository in key markets, including equity, diversity, and inclusion collaborations.

National Institute of Environmental Health Sciences (NIEHS)

Durham, North Carolina

NIEHS Scholars Connect Program (NSCP)

June 2021—April 2022

- Utilized tidyverse in R to analyze candidate gene set enrichment analyses of 500,000+ study participants.
- Visualized 18+ health outcomes' likely loci candidates for benchmarked methods using ggplot2.
- Presented semesterly research findings of statistical work at the Biostatistics and Computational Biology Branch to the NSCP Scholars Seminar Series.

PROJECTS

An Analysis of Boba Yelp Reviews

August 2023—November 2023

- Leveraged Python and R to write a comprehensive analysis of Raleigh and NYC boba shops.
- Developed Tableau visualizations for delivering insights to master's-level data science students.

Bartola Garcia

252-342-5453 | bgarcia6@ncsu.edu | [LinkedIn](#)

Analytically minded collaborator capable of utilizing statistical modeling and R to translate data insights into actionable results. Resilient and detail-oriented with experience in dynamic cross-functional environments.

Skills: R, Python, Spanish, Research

Certification: PCEP – Certified Entry-Level Python Programmer

EDUCATION

Master of Science in Analytics

May 2024

Institute for Advanced Analytics, NC State University, Raleigh, NC

Bachelor of Science in Biology and Chemistry, Summa Cum Laude

May 2022

Meredith College, Raleigh, NC

PRACTICUM

Hitachi Energy

Communication Lead

- Implementing communication standards to ensure compliance in all deliverables and serving as communication liaison, while leading and maintaining documentation for the project
- Creating and training multiple machine learning models in Python on 1.5 million+ time-point observations
- Predicting the characteristics of power transformers from 17 countries using ensembles of time series models
- Presenting findings to Hitachi Energy industry experts with visualization tools, including Tableau, *Matplotlib*, and *ggplot2*

EXPERIENCE

BioAgilytix

Durham, NC

Analyst I

May 2022—June 2023

Developed, qualified, and validated biomarker analytical experiments. Compiled and processed sample analysis data for 10+ biomarkers using validated Excel Macros and laboratory software. Conducted rigorous data review to ensure quality assurance and data integrity.

- Generated \$5-10k per sample analysis per day in support of 20+ preclinical and clinical studies
- Produced, cleaned, and interpreted sample analysis results for more than 320 samples per experiment
- Led a team of 5 in generating sample analysis results for client-specific projects

Stanford University School of Medicine, Crabtree Lab

Palo Alto, CA

Amgen Research Intern

June 2021—Jan 2022

Identified 5 target genes to induce dopamine production as a location-specific drug treatment for Parkinson's disease using single-cell gene expression analysis in R.

- Performed data cleaning and slicing to identify targets expressed in the brain for drug specificity
- Performed 100 hours of detailed literature review on transcriptional factors

Meredith College

Meredith College, NC

English Department Teacher Assistant

August 2019—May 2021

Aided in lesson planning, grading, and administrative support. Maintained and organized student records.

- Coordinated department college events in representation of the English Department

Red Ventures

Fortmill, SC

Golden Door Tech Fellow

June 2019—July 2019

Developed and presented a final web development project to industry experts in a fast-paced environment.

- Self-taught multiple back-end software developing languages for use in web developing projects

Pooja Gattamaneni

919-264-2393 | pgattam@ncsu.edu | [GitHub](#) | [LinkedIn](#)

Experienced Data Engineer with a demonstrated aptitude for devising innovative solutions through methodical analysis and precise execution. Fluent in statistical modeling and proficient in leveraging data tools to generate actionable insights and drive cross-functional collaboration. Skilled in translating complex analyses into compelling narratives that resonate with diverse audiences, facilitating informed decision-making.

Technical Skills: Python, R, MySQL, PostgreSQL, Tableau, AWS cloud—Athena, CloudWatch, EC2, ECS, EKS, Lambda, Neptune, S3, Sagemaker, SNS, SQS, Tensorflow, ZenML, NannyML, Evidently

Certifications: AWS Certified Cloud Practitioner, Massive Mining of Datasets by Stanford Online, Machine Learning and Deep Learning by DeepLearning.ai

EDUCATION

Master of Science in Analytics

May 2024

Institute for Advanced Analytics, NC State University, Raleigh, NC

Bachelor of Technology in Computer Science Engineering

June 2022

International Institute of Information Technology Bhubaneswar, India

PRACTICUM

Wells Fargo | Technical Lead

- Transform 28 months of data for a customer base of 500k to train models and generate predictive insights.
- Develop ML models, including XGBoost, logistic regression and decision tree models, to identify a new customer segment in Wells Fargo to enhance marketing strategies and execution.
- Leverage Python packages such as Dask for data cleaning, exploration, and model development.
- Effectively communicate model results and findings into actionable business insights for Wells Fargo.

EXPERIENCE

Kreditbee

Bangalore, India

Data Engineer

July 2022—May 2023

- Developed and deployed a Python microservice for generating graphs to track metrics, facilitating model drift detection and performance monitoring with NannyML, enhancing timely detection of anomalies.
- Designed and implemented an AWS Neptune graph database for customer network fraud, along with an interactive graph explorer for visualization, leading to an 18% increase in the detection of fraudulent activities.
- Significantly contributed to developing multiple Python microservices for an in-house analytics application, defining its core functionality, to drive decision-making across strategy, business, and finance teams.
- Spearheaded integration of the SME lending segment into the Risk and Data Department by orchestrating rule engines and optimizing data flow through the implementation of AWS services and MySQL.
- Collaborated seamlessly with cross-functional teams and effectively translated complex analytical results to the Chief Risk Officer and Chief Data Scientist, facilitating informed decision-making and strategic insights.

Kreditbee

Bangalore, India

Machine Learning Engineer Intern

January 2022—June 2022

- Implemented reproducible, production-ready pipelines for Credit Risk Decisioning in real-time, resulting in a 35% reduction in processing time.
- Consolidated the capabilities of open-source frameworks in a unified ML platform using ZenML, reducing the model development time from months to weeks.

Dell

Hyderabad, India

Summer Intern – Data Engineering

June 2021—July 2021

- Created a Business Intelligence Testing Automation System, saving 2 weeks of manual effort, and automated data validation in ETL processes using OpenScript and Oracle SQL developer.

INTERESTS

Doodling, Hiking, Cooking, Reading, Movies, Sitcoms, Kuchipudi Dancing, Yoga, Languages

Madison Haithcock

📞 919-327-7961 ✉ mohaithc@ncsu.edu  [LinkedIn: Madison Haithcock](#)

PROFESSIONAL SUMMARY

Analytically minded self-starter and enthusiastic problem-solver, skilled in facilitating cross-team collaboration with a commitment to continuous self-improvement.

Software: Python, R, SQL, Tableau

Statistical Concepts: Linear and Logistic Regression, Survival Analysis, Time Series

Certifications: PCEP – Certified Entry-Level Python Programmer, Microsoft Excel Expert

EDUCATION

Master of Science in Analytics

May 2024

Institute for Advanced Analytics, NC State University, Raleigh, NC

Bachelor of Science in Business Administration in Computer Information Systems

May 2023

Walker College of Business, Appalachian State University, Boone, North Carolina

PRACTICUM

United States Department of Education

September 2023—Current

Program Liaison

- Cleaning and processing 300K+ data points to minimize memory usage while maintaining usability
- Implementing K-prototypes and KNN techniques to construct social networks by connecting individuals across 30+ attributes
- Delivering well-documented and reproducible Python code to client which was used to create new network data for 45M+ customers
- Estimating the effect of one's network on 5 long-term student outcomes using logistic regression, extreme gradient boosting, and neural networks

PROFESSIONAL EXPERIENCE

North Carolina Rate Bureau

Raleigh, North Carolina

Data Analytics Intern

May 2022—December 2022

Supported cross-functional teams by designing and delivering data-driven insights through Tableau dashboards to enhance decision-making processes.

- Collaborated with managers to understand their data visualization needs and translated their requirements into effective Tableau dashboards
- Mentored by and worked closely with upper management on special projects
- Presented work from the summer to senior executives, effectively conveying complex insights and contributing to informed decision-making

ACADEMIC PROJECT

Transportation Insight Center for Entrepreneurship

September 2022—December 2022

- Automated process for booking and organizing new and repeat clients using Zapier and Calendly
- Collaborated with team members to streamline communication and improve client satisfaction by implementing a robust CRM system, increasing client retention and efficiency

Adil Heah

919-492-7740 | aaheah@ncsu.edu | [LinkedIn](#)

Data-oriented strategic thinker with a keen interest in evidence-driven decision-making. Proven track record with 3 years of systematically solving problems using data and communicating complex concepts in an intuitive manner to inform and influence business decisions.

Technical Skills: R, Python, SQL, Cloud Computing, Financial Modeling, Regression and Time Series Analysis

Certifications: PCEP—Certified Entry-Level Python Programmer, AWS Certified Cloud Practitioner

EDUCATION

Master of Science in Analytics

May 2024

Institute for Advanced Analytics, NC State University, Raleigh, NC

Bachelor of Accountancy & Bachelor of Business Management, *summa cum laude*

Jun 2020

Singapore Management University, Singapore

- SMU Scholarship Program Recipient, *full tuition and living stipend*
 - EY Outstanding Student Leader, *awarded to 1 student from each graduating class*
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PRACTICUM

Brightly

Oct 2023—Apr 2024

Team Lead

- Clean, wrangle, and transform 500 MB of raw enterprise asset management data from multiple tables using Python and R in preparation for statistical analysis and predictive modeling
 - Generate work crew profiles through clustering methods such as K-means and hierarchical clustering, enabling practical segmentation of work crews for clients
 - Leverage crew profiles and historical maintenance data to develop a predictive model that estimates maintenance request completion times, enabling more accurate planning of upcoming workloads
-

EXPERIENCE

EY-Parthenon

Singapore

Senior Associate, Strategy Consulting

Oct 2022—Jun 2023

Associate, Strategy Consulting

Jul 2021—Sep 2022

Delivered on growth, market landscape, and portfolio strategy engagements for clients across various industries.

- Developed revenue growth strategies, including planning and implementing an 8-11% price increase across most products at minimal volume loss for a leading drinks bottler in Southeast Asia
- Collaborated with a national cybersecurity regulator in analyzing the ecosystem and proposed key interventions to bolster status as a cybersecurity hub over the next 5 years
- Formulated a go-to-market strategy expected to deliver \$140m in additional revenue by year 5 for a global beverages client looking to expand their presence in the Asia-Pacific region
- Organized outreach and new hire events, with the team achieving 50+% headcount growth from 2022-2023

Mapletree Investments

Singapore

Management Associate, Private Capital Management

Jul 2020—Jun 2021

Facilitated the capital raising process, including roles in investor engagement, marketing, and structuring.

- Formulated, structured, and syndicated private real estate funds, including a successful €500m fundraise
- Analyzed and underwrote acquisition opportunities, including the final stage bid for an A\$3b+ portfolio of Australian logistics assets and the potential take-private of a listed real estate investment trust

Singapore Civil Defense Force

Singapore

Fire & Rescue Specialist

Feb 2014—Dec 2015

Led a crew of firefighters in responding to various emergencies, including residential fires and casualty extrication.

- Selected as Vehicle Commander for a parade vehicle on National Day, viewed by over 10,000 live spectators

Eason Her

984-242-7311 | yher@ncsu.edu | [LinkedIn](#)

Problem solver adept at analyzing business challenges through advanced statistical models and delivering data visualizations and stories to stakeholders using tools such as SQL, R, Python, and Tableau. Developing insights from data to inspire and identify business opportunities for intended audiences.

Software / Technical Tools: SQL, R, Python, Tableau, MS Excel, SAS

Office Applications: MS Word, PowerPoint, SharePoint, Salesforce

Certifications: Tableau Desktop Certified Associate, Tableau Desktop Specialist, PCEP— Certified Entry-Level Python Programmer, SAS Certified Specialist: Base Programming Using SAS 9.4

EDUCATION

NC State University, Raleigh, NC

Master of Science in Analytics

May 2024

Bachelor of Science in Statistics

December 2020

PRACTICUM

Brightly

Cary, NC

Program Liaison

Oct 2023—Current

- Clean, wrangle, and transform 500 MB of raw enterprise asset management data from multiple tables using Python and R in preparation for statistical analysis and predictive modeling.
- Generate work crew profiles through clustering methods such as K-means and hierarchical clustering, enabling practical segmentation of work crews for clients.
- Leverage crew profiles and historical maintenance data to develop a predictive model that estimates maintenance request completion times, enabling more accurate planning of upcoming workloads.

EXPERIENCE

Pretzel Twister

New Hill, NC

Marketing Analyst

Sep 2022—Apr 2023

- Analyzed sales data and presented the top 10 items and categories to senior management in Tableau.
- Evaluated the effectiveness of the anniversary promotion and contributed to marketing decisions.
- Discerned consumer behavior patterns and helped enhance product development using R.

Cisco (Contract through Experis)

Morrisville, NC

Data Analyst

June 2021—July 2022

- Analyzed data sets in HR and Sales to create management dashboards for leaders to gain direct visibility.
- Composed queries in SAP HANA to build the data foundation required for analytics projects with SQL.
- Solved urgent logic and data issues found in the backend tables for in-production Tableau dashboards.
- Maintained and enhanced the performance, speed, accuracy, and efficacy of in-production dashboards.
- Generated real-time data in SFDC for opportunity visibility and forecast analysis.

Data & Analytics Capitals

Singapore, Remote

Data Analyst Internship

May 2020—Sep 2020

- Explored and manipulated raw data in Python.
- Built models for data analysis with statistical methods such as regression, clustering, time series, and neural networks.
- Generated query ideas and results from structured data with SQL.
- Improved linear models to optimize performance and accuracy.
- Designed visualization Tableau dashboards to deliver a comprehensive overview to store managers, merchandisers, and data scientists.

CARLOTTA HICKS

📞 919-539-6880 ✉️ chicks3@ncsu.edu  [LinkedIn](#)

PROFESSIONAL SUMMARY

Experienced programmer with strong abilities in Python, R, SQL, Java, GIT REST and AWS Ecosystem. Proficient with Agile development methodologies; possessing good communication and team working skills.

Programming Languages: Python, R, SQL, Java
Systems/Databases: Windows, Unix, MySQL, Postgres
AWS Products/Services: Simple Storage Service (S3), Simple Notification Service (SNS), Simple Queue Service (SQS), Lambda, DynamoDB, Redshift, Aurora
Other: IntelliJ, PyCharm, Jupyter Notebook, REST, XML, JSON, Agile, JIRA, Git, Microsoft Word Office

EDUCATION

North Carolina State University

Master of Science in Analytics, Institute for Advanced Analytics

May 2024

Bachelor of Science in Computer Science

PRACTICUM

Bank of America

Technical Team Lead

Charlotte, NC

Sep 2023 – Current

- Utilizing Python and SQL to create a novel technology for client segmentation and outlier detection
- Applying machine learning techniques to perform unsupervised clustering on over 4 million clients
- Optimizing modeling processes through advanced feature engineering methods
- Implementing Agile methodologies to streamline project workflows and enhance team collaboration

PROFESSIONAL EXPERIENCE

SAS

Senior Software Developer

Customer Intelligence 360

May 2014 – June 2023

- Designed and implemented a data import process to ingest multi-million rows of structured data using **Java, MySQL, AWS S3, AWS SQS** and **AWS DynamoDB**
- Designed and implemented an asynchronous data migration process from AWS Redshift to AWS Aurora using **Java, MySQL, AWS S3** and a **RESTful API**
- Designed and implemented process to export structured data from Amazon Aurora to Amazon S3 using **Java, MySQL, AWS SNS**, and **AWS Lambda**
- Wrote various **Python** scripts as tools for development environment

Intelligent Query

April 2004 – April 2014

- Designed and implemented the INFOMAPS SAS/ACCESS engine to retrieve structured data from Business Intelligence 360 into the SAS Platform using **C, Java**, and **Java Native Interface**

Database Interface

Dec 1993 – Mar 2004

- Developed SAS/ACCESS engine to ingest customer data from 3rd party API into the SAS Platform using C and SAS C
- Worked on team to design a relational data model for SAS Management Console using the Common Warehouse Metamodel (CWM) specification as reference

Nick Hicks

☎ 336-325-5442 ✉ nthicks3@ncsu.edu  [LinkedIn](#)

PROFESSIONAL SUMMARY

Insightful storyteller fluent in statistical concepts and R, and skilled in analyzing patterns and trends to communicate compelling findings to necessary stakeholders with various technical backgrounds.

Practiced in the following areas:

Software: Intermediate R, Beginner Python, Beginner SQL

Statistical Concepts: Data Mining, Logistic Regression, Machine Learning, Time Series

Certification: PCEP – Certified Entry-Level Python Programmer

EDUCATION

Institute for Advanced Analytics, NC State University, Raleigh, NC May 2024
• Master of Science in Analytics

Appalachian State University, Boone, NC Dec. 2022
• Bachelor of Science in Mathematics
◦ Departmental Honors
◦ Institutional Honors

PRACTICUM

Fifth-Third Bank Sept. 2023—Current
Communication Lead

- Cleaned and analyzed account-level data for 3 million+ households to compare deposit information across 1000+ branches.
- Performed geospatial analysis to construct and deploy a model for identifying optimal branch locations, comparing logistic regression, explainable boosting machine, decision tree, and others.
- Utilized Python to identify key performance metrics from 120+ variables and curate a set of custom engineered features that predict branch success.
- Developed a Tableau dashboard to provide stakeholders actionable insights into a branch's performance.
- Worked collaboratively under an Agile framework to accomplish project goals.

PROFESSIONAL EXPERIENCE

University Instructors Staunton, VA
Mathematics Tutor Feb. 2023—June 2023

- Improved student success by tailoring learning approaches to individual learning styles.
- Provided targeted academic support and guidance to students, leading to a passing rate that exceeded the projected percentage.

PUBLICATIONS

[OLSAVS: A New Algorithm for Model Selection](#)

International Journal of Statistics and Probability

- T. Hicks, N., & Arachchige Don, H. S. (2023). Olsavs: A new algorithm for Model Selection. *International Journal of Statistics and Probability*, 12(2), 28.
<https://doi.org/10.5539/ijsp.v12n2p28>

Jayne Hoyt

☎ (828) 493-6017 ✉ jehollar@ncsu.edu  [LinkedIn](#)

PROFESSIONAL SUMMARY

Critical thinking collaborator with a background in statistical analysis.

Skilled in the following areas:

Software: R, Python, SQL, Tableau

Statistical Concepts: Statistical Modeling, Logistic Regression, Data Mining, Data Visualization

Certifications: PCEP – Certified Entry-Level Python Programmer, Tableau Desktop Specialist

EDUCATION

M.S. in Analytics

May 2024

Institute for Advanced Analytics, NC State University, Raleigh, NC

B.S. in Mathematics, summa cum laude

May 2023

Appalachian State University, Boone, NC

- Minor in Statistics
- Honors Thesis: *Analyzing the Effect of Bottleneck Courses on Time to Graduation*
- Math Club President, Math Department Student Advisory Board Secretary

PRACTICUM

DAIMLER TRUCK NORTH AMERICA

September 2023—Current

Scrum Master

- Driving business insights on vehicle repairs from over 100 million rows of customer data by adapting quickly to the sponsor's industry knowledge and tools in Python and Polars.
- Differentiating customer vehicle profiles based on geospatial features by conducting K-Means and DBSCAN clustering on truck data.
- Providing new insights on vehicle repairs due to geographical effects for future customers through GAM, random forest, and XGBoost models.
- Applying Agile methodology and version control in GitLab to track and enhance team performance throughout the project.

EXPERIENCE

ECR SOFTWARE COMPANY

Boone, NC

Part-Time Research Intern

May 2022—May 2023

- Implemented and updated demand forecast model using Python and R to make predictions for inventory management.
- Reviewed and modified existing forecasting methods using a Prophet model to correct inadequacies, adapt to new data, and improve performance when compared to previous models.
- Utilized Jira to track, organize, and communicate workday tasks among a team of 5.

APPALACHIAN STATE UNIVERSITY

Boone, NC

Undergraduate Research Assistant

May 2021—July 2021

- Collaborated with professors to collect and analyze COVID-19 student data from the Fall 2020 semester at Appalachian State University.
- Visualized COVID-19 parameters by studying the results of MATLAB graphs.

ZAKIA ISHAQUE

📞 980-833-4645 ✉ zmishagu@ncsu.edu 🐙 [GitHub](#)  [LinkedIn](#)

PROFESSIONAL SUMMARY

Creative problem solver with statistical background encompassing data analysis, modeling, and visualization, along with extensive programming experience. Adept at leveraging advanced methods to tackle complex data science challenges, such as creating chatbots using large language models. Detail oriented team-player with strong communication skills, ensuring success in data science.

Software: Python, R, SQL, Tableau

Statistical Concepts: Regression, Time Series, Machine Learning, Data Mining, Text Analytics, Survival Analysis, Natural Language Processing, Cloud Computing

Certifications: PCEP—Certified Entry Level Python Programmer

EDUCATION

MS in Analytics

May 2024

Institute for Advanced Analytics, North Carolina State University

BS in Neuroscience and Psychology, Minor in Data Science

December 2022

University of North Carolina at Chapel Hill

PRACTICUM

FIFTH THIRD BANK

September 2023—Current

Technical Communication Lead

- Leverage both commercial and open-source large language models (LLM) to create a chatbot.
- Design methods for an LLM to interact and answer questions with information stored in both databases and vector stores.
- Measure and mitigate the risk of LLM jailbreaking, hallucinating, and disobedience through prompt engineering and experimental methodologies.
- Promote the use of ethical frameworks to steer team decisions and communicate in a manner accessible to both technical and non-technical audiences.

PROFESSIONAL EXPERIENCE

CIRCLE LAB

Chapel Hill, NC

Research Assistant

September 2022—May 2023

- Collaborated with 50 families to meticulously gather psychological and biological data, contributing to the investigation into early life experiences and their impact on brain development.
- Utilized Microsoft Excel and SPSS to analyze and interpret preliminary data, providing early insights for ongoing research.
- Assisted in experiment design for the WHALE study, actively contributing to the development of methodologies and protocols to ensure the study's success.

COVCLINIC, LLC.

Las Vegas, NV

Research and Development Intern

January 2021—May 2021

- Managed on-site operations at 16 COVID-19 testing sites and trained 20 health professionals on test site protocols.
- Employed data visualization techniques to make data-driven recommendations about the efficiency of test site models.

Daniel Jaramillo

954-881-5152 | dajarami@ncsu.edu | [LinkedIn](#)

Dedicated problem-solver adept at using Python and statistical analysis to develop insights into complex problems in a team setting.

Programming: Python, R, SQL

Certification: PCEP – Certified Entry-Level Python Programmer

Statistical Concepts: Multiple Linear Regression, Logistic Regression, Data Mining

Languages: English, Spanish

EDUCATION

Master of Science in Analytics

May 2024

Institute for Advanced Analytics, North Carolina State University, Raleigh, NC

Bachelor of Science in Information Technology, Cum Laude

May 2023

Florida State University, Tallahassee, FL

PRACTICUM

Daimler Trucks North America

Practicum Technical Lead

- Driving business insights on vehicle repairs from over 100 million rows of customer data by adapting quickly to sponsor's industry knowledge and tools in Python and Polars.
- Differentiating customer vehicle profiles based on geospatial features by conducting K-Means and DBSCAN clustering on truck data.
- Providing new insights on vehicle repairs due to geographical effects for future customers through GAM, random forest, and XGBoost models.
- Managing sponsor data transfer and technical tools like Git to support team and project needs.

VOLUNTEER WORK

UPMC Voice Center

Pittsburgh, Pennsylvania

Undergraduate Research Assistant

April 2022—August 2022

- Compiled and summarized PubMed articles for research using Python.
- Communicated consistently with lead researcher to specify 10+ search parameters.

ACADEMIC PROJECTS

New York Airbnb Analysis Project

Tallahassee, Florida

Co-Leader

August 2022—December 2022

- Generated predictive models in Python to predict listing prices.
- Visualized data collected and predictive power of models using Python and Microsoft Excel.
- Led a team of 3 to complete data exploration and analysis by deadlines.

Social Media Analysis Project

Tallahassee, Florida

Co-Leader

August 2021—December 2021

- Ran automated tools to gather data from 18 different FSU colleges' social media accounts.
- Utilized statistical analysis to measure the success and efficacy of each social media account.
- Visualized data gathered in Microsoft Excel for presentation purposes.
- Collaborated and effectively communicated with a team of 6 to complete analysis.

Aditya Kandukuri

📞 919-454-1211 ✉ [Email](#) [in](#) [LinkedIn](#)

PROFESSIONAL SUMMARY

Analytical, persistent, and detail-oriented problem-solver at the Institute for Advanced Analytics looking to enhance professional growth and advance organizational goals through implementing data-driven approaches. Demonstrated understanding of technical and financial concepts with prior experiences in investment management, product management, and cyber security.

Skills: Intermediate in R, Python, SQL, Excel, Hypothesis Testing, Regression Analysis, Agile Methodologies

Certification: PCEP – Certified Entry-Level Python Programmer

EDUCATION

Master of Science in Analytics

May 2024

Institute for Advanced Analytics, NC State University, Raleigh, NC

Bachelor of Science in Finance

May 2021

Rutgers Business School, New Brunswick, NJ

PRACTICUM

Elevate Credit, Inc.

August 2023—Current

Communication Lead

- Collaborate in a team of 5 to understand the recent deterioration of Elevate's refinance sector by explaining and predicting charge-off rate
- Leverage statistical methods and machine learning techniques on extensive credit data with over 5,000 variables and 65,000 customer loans using Python and SQL
- Present analytical findings on charge-off prediction and develop potential key risk indicators (KRIs) to mitigate future deterioration in the refinance sector

PROFESSIONAL EXPERIENCE

Empower (formerly Prudential Financial)

Greenwood Village, CO

Investment Operations Associate

April 2022—May 2023

- Performed monthly and quarterly reconciliations for 300+ funds to uphold required audit requests
- Provided external business partners with their updated monthly client investment data; researched fund details to support the timely processing of important litigation checks
- Collaborated in a team of 4 to support various division-wide initiatives; gathered and presented monthly and quarterly performance metrics
- Published newsletters to foster employee engagement

Prudential Financial

Newark, NJ

Investment Operations Associate

July 2021—March 2022

- Leveraged Microsoft Excel, Plan Accounting Reporting Information System (PARIS), Prudential Inventory Proof System (PIPS), and State Street Bank (SSB) to support investment operations
- Created financial forecasts and processed investment-related client deposits ranging up to \$100M to corporate funds held at Prudential
- Investigated daily accounting activity for client contribution and disbursement accounts, provided research to help reconcile cash variances, and monitored these accounts' closing balances at the end of each day
- Conducted virtual onboarding sessions to train new hires and co-workers on group deliverables

JIN LEE

☎ 678-480-9398 ✉ jlee56@ncsu.edu  [LinkedIn](#)

PROFESSIONAL SUMMARY

Army Veteran turned data professional with a passion for statistical analysis and finding creative solutions to complex problems through critical thinking. Capable of changing roles based on the needs of organizations by filling leadership positions or providing support. Skilled in the following areas:

- **Software:** Python, R, SQL, Tableau
- **Statistical Concepts:** Linear and Logistic Regression, Predictive Modeling, Time Series, Data Mining, Machine Learning
- **Certifications:** PCEP – Certified Entry-Level Python Programmer, Tableau Desktop Specialist
- **Language:** English (Native), Korean (Native)

EDUCATION

M.S. in Analytics

May 2024

Institute for Advanced Analytics, NC State University, Raleigh, NC

B.S. in Mathematics

December 2022

Georgia Institute of Technology, Atlanta, GA

PRACTICUM

EXOVERA

August 2023—Current

- Identify signals of influence from one country to another using socio-political data
- Utilize Python to analyze 10 GB of text data, including media summaries and raw content written in a foreign language
- Perform correlative analyses in R using time lagged cross correlation and dynamic time warping
- Build predictive models using regularization techniques to forecast events and messaging

PROFESSIONAL EXPERIENCE

United States Army

JBSA Fort Sam Houston, TX

Combat Medic Specialist (Non-Commissioned Officer)

September 2016—September 2020

- Led and trained a 5-person team providing medical coverage and conducting patient care in a field training environment, while communicating consistently with senior leadership
- Organized, tracked, and updated medication and supply inventory
- Entrusted with medical equipment, technology, and medications worth \$500,000+

ACADEMIC PROJECT EXPERIENCE

Nucleic Acid Folding Project

Atlanta, GA

Student at Georgia Institute of Technology

March 2022

- Determined the maximum number of base pairs in the secondary structure of an RNA molecule
- Transformed the problem and constraints into mathematical systems and translated them to a Python environment using Gurobi to find an optimal solution

Atlanta COVID Project

Atlanta, GA

Student at Georgia Institute of Technology

December 2021

- Developed a Python script that fits 130,000+ COVID cases in Atlanta using different numerical methods (cubic spline interpolation and trapezoidal quadrature rule)
- Selected optimal method in terms of accuracy, error, computational cost, and time and space complexity

Tae Lee

📞 984-255-5668 ✉ tlee6@ncsu.edu  [LinkedIn](#)

PROFESSIONAL SUMMARY

Self-motivated problem solver with a strong **engineering** background, proficient in leveraging **data analysis** techniques to deliver actionable business solutions by presenting valuable insights.

Programming: Python, R, SQL

Software: Tableau, AWS, Excel, SAP

Certifications: PCEP—Certified Entry-Level Python Programmer, Tableau Desktop Specialist, MS Office Master, FE Mechanical

EDUCATION

Master of Science in Analytics

Institute for Advanced Analytics, NC State University, Raleigh, NC

May 2024

Bachelor of Science in Mechanical Engineering

NC State University, Raleigh, NC

Dec. 2018

PRACTICUM

Antares Audio Technologies (Auto-Tune®)

Technical Lead

Aug. 2023 — Current

- Employing **Python**, **R**, and **SQL** to process, clean, and analyze a dataset of approximately 4GB, spanning 15 tables and containing 40 million rows of customer data.
- Enabling proactive identification of at-risk customers and discovering key churn-contributing factors through a machine learning model for **customer churn analysis**.
- **Segmenting customers** to drive personalized marketing and product bundling strategies.
- Engineering a **customer lifetime value (CLV)** model to assess product performance, promotion success, and customer loyalty, enhancing data-driven decisions for optimizing long-term retention efforts.

PROFESSIONAL EXPERIENCE

LS Cable & System

Process Engineer II

Tarboro, NC

Mar. 2019 — Mar. 2023

- Initiated statistical analysis on controllable process variables correlating with process disturbance, resulting in a **22% improvement in product quality**.
- **Led a cross-functional team** in identifying and analyzing key factors contributing to production downtime and scrap, leading to a **19% downtime reduction**.
- Implemented daily root cause analyses, systematically prioritizing issues based on their impact and frequency, and initiated **sustainable corrective action plans**.
- Initiated a **monthly workshop training program** for operators to foster team cohesion and equip them with the essential knowledge and skills to enhance overall process efficiency.
- Led SAP implementation as a Power User, collaborating with the IT team, customizing transactional data flows and reports, and **training over 300 employees to enhance data processing**.

ACADEMIC PROJECTS

Restaurant Revenue Prediction

- Developed **random forest**, **SVR**, and **K-nearest neighbor** machine learning models to predict restaurant revenue, subsequently enhancing performance through ensemble techniques.

Forecasting Energy Transmission for AEP

- Built **ARIMA**, **Prophet**, and **Neural Network** models to forecast monthly energy transmission within AEP Power Transmission Zone, further enhancing accuracy through ensemble techniques.

NC State Women's Tennis Visualization Analysis

- Analyzed various tennis metrics and developed a **Tableau** dashboard to provide data-driven assistance for player development and recruitment strategies.

JON LIN

• 813-727-7350 ✉ jhlin@ncsu.edu  LinkedIn

PROFESSIONAL SUMMARY

Analytically minded and motivated professional with a constant curiosity for new knowledge, especially software. Collaborative and adaptable to ever-changing conditions developed from working with others in a lab environment to fulfill tasks and meet deadlines.

Software: Python, R, SQL, Tableau

Statistical Concepts: Machine Learning, Regressions, Data Mining, Clustering, A/B Testing

Certifications: PCEP – Certified Entry-Level Python Programmer, AWS Certified Cloud Practitioner

EDUCATION

MS in Analytics

May 2024

NC State University, Institute for Advanced Analytics, Raleigh, NC

BS in Biology with Minors in Chemistry and East Asian Literature

May 2022

Duke University, Durham, NC

PRACTICUM

Fifth Third | Scrum Master

Sep. 2023—Current

- Clean and analyze data for 3 million+ households to compare deposits across 1000+ branches.
- Perform geospatial analysis to construct and deploy a model for identifying optimal branch locations, comparing logistic regression, explainable boosting machine, decision tree, and others.
- Utilize Python to identify key performance indicators (KPIs) from 120+ variables and curate a set of engineered features that predict branch success.
- Develop a Tableau dashboard to provide stakeholders with actionable insights into a branch's performance
- Facilitate the fulfillment of the project goals by using agile framework techniques.

PROFESSIONAL EXPERIENCE

Duke University School of Medicine (Andrew B. West's Lab)

Oct. 2019—May 2023

Research Technician

Undergraduate Researcher (Part-time)

- Fit linear regressions to determine the protein concentration using Excel, to examine the effects of different inhibitors on the release of a specific protein.
- Analyzed DNA samples, using BioRad software, to determine the genotypes of different mice strains.
- Managed 8 strains of mice in our animal colonies, reducing the cost of colony maintenance.

PROJECT

Developed Predictive Models for Credit Card Churners to Address High Customer Churn Rates

- Cleaning and transforming a dataset of 10,000 customers.
- Implemented logistic regression and RandomForest models, achieving AUC scores of 0.89 and 0.92.
- Recommended the RandomForest model for future churn prediction due to superior performance and its feature importance abilities.

VOLUNTEER EXPERIENCE

NCCARE360 | Patient Referral Specialist

Dec. 2020—Jan. 2021

- Managed 1000+ patient referrals through the UniteUs system, working with a team of volunteers.
- Assisted families affected by COVID-19 by connecting them with the appropriate organizations to provide them with COVID relief supplies, among other necessities, through UniteUs.

Good Samaritan Clinic | Scribe

Nov. 2021 – Jan. 2022

- Worked as part of the medical team to help serve underrepresented communities.
- Learned to adapt to and accommodate each provider's unique needs and habits.

Samuel Loch

☎ 919-525-6160 ✉ stloch@ncsu.edu  [LinkedIn](#)

PROFESSIONAL SUMMARY

Statistically minded problem solver adept at leveraging data analytic tools and teamwork skills to tackle a wide range of challenges. Focused on insightful and compelling storytelling, experienced in communicating data analytics to stakeholders with a variety of knowledge and experience.

Software: R, Python, SQL, Tableau

Statistical Concepts: Logistic Regression, Time Series, Linear Regression

Certification: PCEP – Certified Entry-Level Python Programmer

EDUCATION

North Carolina State University, Raleigh

May 2024

Master of Science in Analytics, Institute for Advanced Analytics

University of North Carolina at Chapel Hill

May 2023

Bachelor of Science in Statistics and Operations Research

Bachelor of Arts in Economics

PRACTICUM

Exovera

August 2023 - Current

- Identify signals of influence from one country to another using socio-political data.
- Utilize Python to analyze 10 GB of text data, including media summaries and raw content written in a foreign language.
- Perform correlative analyses in R using time lagged cross correlation and dynamic time warping.
- Build predictive models using regularization techniques to forecast events and messaging.

PROFESSIONAL EXPERIENCE

ZenBio

Summer Intern

Durham, North Carolina

June 2018 - August 2021

- Expanded the company's output quantity of multiple product lines, working in a sterile environment producing laboratory products.
- Developed and oversaw a key component in the manufacturing of a new product and led a team of interns in the new production method.
- Operated within the company's database of primary cells, organizing thousands of dollars' worth of company capital.
- Trained new interns and new company hires.

AWARDS

The Guest Family Fund for Excellence in Economics

Grant Funded Researcher

UNC Chapel Hill

2022

Submitted a research proposal and was awarded a \$3,000 grant to research the textbook resale market. Created a dataset of current edition textbooks for the 4 largest textbook producers. Used linear regression and market analysis to create a model to predict the resale value of textbooks and was published on the [Fund's website](#).

SOPHIA MA

📞 919-928-1066 ✉ stma@ncsu.edu  <https://www.linkedin.com/in/sophiatma/>

PROFESSIONAL SUMMARY

Motivated M.S. Candidate in Analytics passionate about leveraging models and data analytics to unearth actionable insights. Goal oriented, big picture thinker experienced in fostering teamwork, pursuing purpose and fulfillment through meaningful opportunities to initiate data-driven change.

Software: Python, SQL, R, Tableau

Certification: PCEP – Certified Entry-Level Python Programmer

EDUCATION

North Carolina State University, Raleigh, NC

M.S. in Analytics

May 2024

B.A. in International Studies, Global Relations Concentration

June 2023

B.S. in Business Administration, IT Concentration

May 2023

PRACTICUM

Align Technology

August 2023—Current

- Utilizing Python and R to systematically wrangle, clean, and consolidate over 30 million customer records, enhancing its usability
- Employing dimension reduction to subset on variables that accounted for the most variation in purchase likelihood
- Creating explanatory models to unveil the relationship between customer profiles and purchasing behaviors using logistic regression and decision trees
- Developing machine learning models to maximize prediction accuracy using techniques such as XGBoost and random forest

PROFESSIONAL EXPERIENCE

E4 Carolinas

Carrboro, NC

Data Analysis Intern

June 2022—August 2022

- Implemented relational database structure in Excel for over 1200 individuals and 500 companies' contact information
- Performed ETL process from SharePoint to Excel database
- Developed search and sort features to reduce search time within the database
- Standardized process to continuously add new observations to the database
- Collaborated with E4 Carolinas team to ensure database functionality and efficiency

NC State University, Division of Academic and Student Affairs

Raleigh, NC

Pack Assessment Ambassador

January 2021—December 2021

- Presented results behind qualitative assessment data of institutional struggles faced by first-generation college students to the NC State Chancellor's Cabinet
- Coordinated with staff from 14 NC State University departments in an implementation team to better cater campus resources to first-generation college students
- Moderated a focus group of NC State first-generation college students on their experience with a sense of belonging and campus resources
- Planned the increase of campus resource utilization on a departmental and systematic level

NITHYA MANOJ KUMAR

📞 919-523-4143 ✉ nmanojk@ncsu.edu 🌐 [GitHub](#)  [LinkedIn](#)

PROFESSIONAL SUMMARY

Critical thinker, analytical problem solver, and lifelong learner passionate about leveraging data science to drive strategic business decisions and transform complex challenges into resourceful and actionable insights.

Programming: Python, R, SQL

Software: Tableau, AWS (Iamdas, S3, EC2, CloudWatch), SOAP UI, POSTMAN, Git, Rally (Agile platform), MS Office

Certifications: AWS Solutions Architect, PCEP—Certified Entry-Level Python Programmer, IBM Data Science Professional Certification

EDUCATION

Master of Science in Analytics

May 2024

Institute for Advanced Analytics, NC State University, Raleigh, NC

Bachelor of Engineering in Biotechnology

June 2018

Visvesvaraya Technological University, Belgaum, India

PRACTICUM

North Carolina Department of Health and Human Services | Scrum Master

September 2023—April 2024

Using statistical analysis and machine learning to understand and forecast cancer incidence and mortality trends in the state of North Carolina.

- Utilizing Python to wrangle, clean, and merge different data sources, resulting in the novel calculation of census tract-level cancer statistics for the state of North Carolina.
- Analyzing and visualizing key trends in cancer incidence and mortality rates across time and demographics using R and Python.
- Implementing logistic regression, time series, and neural network models to forecast future cancer incidence and mortality using demographic features and shifts in population demographics over time.
- Developing choropleth and cluster maps using Tableau and Plotly to identify spatial trends in cancer incidence, risk, and mortality in the state of North Carolina.

PROFESSIONAL EXPERIENCE

Accenture | Senior Business Systems Analyst | Bangalore, India

November 2019—June 2023

Senior Business Systems Analyst with 4 years of experience in business, technical and functional requirement analysis, operation design and optimization, and continuous stakeholder communication with the objective of maximizing product value for an insurance client application.

- Performed business and technical requirement analysis for a customer facing personal insurance project.
- Optimized existing operations and designed new technical workflow blueprints for over 15 major feature implementations in the expansive engagement circle and the external partner onboarding system.
- Analyzed and defined over 400 user stories on 23 different micro-service operations to product owners, internal teams and cross team triages aligning with Agile standards.
- Identified and addressed complex DBT and production defects.
- Led a team of system analysts on the functional implementation for the proposed design of partner bind operation and the new batch quoting process using AWS, Guidewire, and the inbuilt external acquisition architecture.
- Conducted technical demonstrations, official product presentations, cross-team knowledge transfers, and addressed functional queries within the project circle.
- Participated in scrum ceremonies, responsible for product backlog creation, feature signoff, and work breakdown in expansive engagement offerings.

Accenture | Test Engineering Analyst | Bangalore, India

October 2018—November 2019

- Developed automation test scripts using Selenium Java to automate test execution for UI systems. Performed API testing with SOAP UI, POSTMAN, and groovy scripting for automation.
- Identified, reopened, and retested 7 major prior production defects.

Skyler Matuska

240-406-6270 | mskyler@ncsu.edu | [LinkedIn](#)

Organized statistics enthusiast skilled at quantitative analysis with a focus on explanatory modeling in R. Methodical coder experienced with Python for general applications. Compelling presenter capable of technical and plain language for diverse audiences.

Software: R, Python, Tableau, SQL

Statistical Concepts: Time Series, Logistic Regression, Difference in Differences

Certifications: PCEP – Certified Entry-Level Python Programmer, Tableau Desktop Specialist

EDUCATION

Master of Science in Analytics

May 2024

Institute for Advanced Analytics, NC State University, Raleigh, NC

Bachelor of Arts in Policy Studies

May 2022

Elon University, NC

Outstanding Student in Policy Studies, College Fellow, President's List

PRACTICUM

Trillium

Technical Lead

- Analyzing claims, client, and clinician data to assess the impact of transportation access and environmental contaminants on healthcare usage of 28 counties in North Carolina.
- Compiling 60 tables containing over 1,100 features into a database for analysis using extraction, transformation, and loading (ETL) processes.
- Cleaning, analyzing, and visualizing data using various technologies including R, PGAdmin4, and RShiny.

EXPERIENCE

Undergraduate Research

Elon, NC

Effect of Child Protective Services Interactions on Later-Life Political Engagement Aug 2020 – May 2022

- Planned and executed 4-8 hours per week of research into trauma psychology, political behavior, and policy impacts.
- Analyzed a longitudinal data set with 20K+ participants using Stata in order to explain effects.
- Participated in Western Political Science Association 2022 and delivered a presentation of work completed.
- Secured funding to execute research by successfully drafting a proposal.
- Demonstrated results in plain language to non-technical audience.

Burlington Emergency Management

Burlington, NC

Intern

Jul 2021 – Aug 2021

- Designed, developed, and instituted processes to support disability-accessible diagram design.
- Delivered comprehensive update to emergency operations plan and instituted 2 new roles along with corresponding accountabilities.
- Lauded for keen ability to explore and navigate emergency management structure.

Kenneth Mook

📞 919-951-4679

✉ kcbook@ncsu.edu

🐙 [GitHub](#)

🌐 [LinkedIn](#)

PROFESSIONAL SUMMARY

Problem solving data scientist adept at extracting valuable insights and building end-to-end data pipelines.

Programming Languages: Python, R, SQL, HTML, CSS, JavaScript

Certifications: PCEP— Certified Entry-Level Python Programmer

EDUCATION

M.S. in Analytics

May 2024

Institute for Advanced Analytics, NC State University

B.S. in Computer Science, Minor Statistics

May 2022

University of North Carolina at Chapel Hill

PRACTICUM

Atrium Health

August 2023—Current

- Building logistic regression and machine learning classification models in Python to predict ICU readmissions and mortality.
- Transforming and posturing complex datasets of electronic health records from over 25,000 patients for explanatory and predictive modeling.
- Utilizing model selection techniques to discover key factors for patient outcomes.
- Developing a Tableau dashboard to aid clinicians in real-time patient evaluations.
- Managing challenges related to programming environment, project architecture, data integrity, and ethics.

PROFESSIONAL EXPERIENCE

Volvo Group

Greensboro, NC

Data Scientist Intern

January 2023—May 2023

- Developed a variant complexity profitability simulation using Python and Spark in Databricks that demonstrated the effects of removing all Mack Truck orders from 2017-2023 where a variant is present.
- Measured the impact on all variants, parts, orders, and gross profit removed; developed a Databricks SQL dashboard as a first-generation tool for Mack Trucks to research part reduction with efforts to maintain market share and reduce negative profit truck sales.
- Used Python and Spark to develop a process gathering and cleaning truck purchase data; implemented machine learning approaches, such as Lasso and Ridge regressions, random forest models, and gradient boosted tree models.
- Hyperparameter tuned the random forest modeling process in parallel to discover the best model for predicting gross profit; diagnosed areas of loss with Shapely values.
- Developed logic to automate flagging trucks in production with variants missing on the production line.

SAS Institute

Cary, NC

Software Development Intern

May 2021—August 2021

- Programmed Oracle procedures, Bash scripts, and SAS scripts to better download, upload, and transform data to improve SAS's software for targeting new customers.
- Discovered a SAS's upload process was failing, resulting in the loss of 400k data instances. Fixed the process so 2 billion records uploaded in 68 minutes instead of 13+ hours through concurrent processes.
- Automated an Oracle account transformation process linked to generating millions of dollars of revenue.

Google

Pittsburgh, PA

Computer Science Summer Institute

July 2018

- Participated in an intensive 3-week boot camp focused on programming and web app development.
- Developed and deployed Google AppEngine readSmart, a web app that enables users to better estimate how long it may take them to read specific books using Python, HTML, CSS, and JavaScript.

Nabeel Nasruddin

919-808-8459 | [nnasrud@ncsu.edu](mailto:nasrud@ncsu.edu) | [LinkedIn](#)

Analytically minded problem solver proficient in data analysis techniques, facilitating cross-team collaboration, and generating insights for diverse audiences.

Software: Python, R, SAS, SQL

Courses: Linear Regression, Logistic Regression, Time Series Forecasting, Data Visualization, Data Mining, Text Analytics, Machine Learning, Survival Analysis

Certifications: PCEP–Certified Entry-Level Python Programmer

EDUCATION

M.S. Analytics

May 2024

Institute for Advanced Analytics, North Carolina State University

B.S. Public Health

May 2023

Minor In Statistics

University of North Carolina at Charlotte

PRACTICUM

Atrium Health

August 2023 — Current

Program Liaison

- Building logistic regression and machine learning classification models in Python to predict ICU readmissions and mortality.
- Transforming and posturing complex datasets of electronic health records from over 25,000 patients for explanatory and predictive modeling.
- Utilizing model selection techniques to discover key factors for patient outcomes.
- Developing a Tableau dashboard to aid clinicians in real-time patient evaluations.
- Managing challenges related to programming environment, project architecture, data integrity, and ethics.

EXPERIENCE

Department of Counseling and Education at New Mexico State University

Remote

Data Science Intern

October 2022 — March 2023

- Collaborated with PhD candidates to support the mission of using computational methods (i.e., artificial intelligence) and big data to understand health behaviors and outcomes with funding from NIH.
- Employed Python-based topic modeling and sentiment analysis on Twitter and Reddit posts to support natural language processing projects.
- Conducted exploratory data analysis on research datasets in R to generate descriptive statistics.

Poe Center for Health Education

Raleigh, NC

Program Development Intern

May 2022 — August 2022

- Developed health, nutrition, and leadership-focused programming in collaboration with health educators to improve youth health outcomes.
- Managed a team of 3 interns and 6 volunteers to ensure efficient workflow.
- Created and conducted student surveys to gauge interaction, attendance, and program growth.
- Analyzed compiled student data to evaluate program success and areas of improvement.

Andrea Saravitz

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Experienced data enthusiast with a strong background in statistics, adept at utilizing programming languages for cleaning, preprocessing, and analyzing complex datasets. Possesses a solid foundation in computer programming and a unique ability to bridge statistical analysis with software development principles with the following skills:

Programming Software: R, Python (PCEP—Certified Entry-Level Python Programmer), SQL, Java, C

Statistical Concepts: Regression, Machine learning, Time series forecasting, Experimental design

Computer Science Concepts: Data structures, Operating systems, Algorithm design and complexity, Software development life cycle

EDUCATION

Master of Science in Analytics

May 2024

Institute for Advanced Analytics, NC State University, Raleigh, NC

Bachelor of Science in Statistics, Minor in Computer Programming

May 2023

College of Sciences, NC State University, Raleigh, NC

PRACTICUM

Trillium Health Resources

September 2023 - May 2023

Communication Lead

- Analyzing claims, client, and clinician data to assess the impact of transportation access and environmental contaminants on healthcare usage of 28 counties in North Carolina
- Compiling 60 tables containing over 1100 features into a database for analysis using extraction, transformation, and loading (ETL) processes
- Cleaning, analyzing, and visualizing data using various technologies including R, PostgreSQL, and RShiny

EXPERIENCE

Center for Geospatial Analytics at NC State University

Raleigh, NC

Undergraduate Research Assistant

August 2022 - June 2023

- Coded with terra package in R to apply GIS analysis techniques to investigate and map over 40 MB of spatial data on biological invasion
- Modeled the spread of pest invasion in forest ecosystems across the United States using R and Google Earth Engine
- Conducted a literature review with researchers by reviewing scholarly papers to determine if they were relevant to the review's intended topic

Libraries IT Department at NC State University

Raleigh, NC

IT Student Technician

June 2022 - May 2023

- Maintained IT assets, assisted with new hardware and software setups, and supported high tech spaces
- Diagnosed, troubleshooted and resolved technical issues both individually and collaboratively working with students, staff, and patrons
- Effectively addressed and resolved 700 technical support tickets, simultaneously employing problem-solving skills and technical expertise

Lu Shen

336-840-4576 → lshen5@ncsu.edu → [GitHub](#) → [LinkedIn](#)

Insightful problem-solver leveraging analytics to deliver actionable insights and drive cross-functional collaboration. A compelling storyteller skilled in translating complex findings to diverse stakeholders. Proficient in data wrangling, data visualization, statistical analysis, and machine learning.

SKILLS

Software: SQL, Python (Pandas, Scikit-learn), R

Concepts: linear/logistic regression, XGBoost, random forest, neural network, data mining, statistics

Certification: PCEP—Certified Entry-Level Python Programmer, Tableau Desktop Specialist

EDUCATION

M.S. in Analytics, Institute for Advanced Analytics, NC State University May 2024

M.B.A., Wake Forest University August 2017

M.S. in Chemical Engineering, University of Missouri—Columbia December 2013

B.Eng. in Petroleum, East China University of Science and Technology June 2012

PRACTICUM PROJECT

Elevate September 2023 -Current

- Collaborated in a team of five to understand the recent deterioration of Elevate's refinance sector by explaining and predicting charge-off rate
- Leveraged statistical methods (ANOVA) and machine learning including logistic regression, XGBoost, and decision tree on credit data with over 5,000 variables and 65,000 customer loans using Python and SQL
- Presented analytical findings on charge-off predictions and developed potential key risk indicators (KRIs) to mitigate future deterioration in the refinance sector

WORK EXPERIENCE

NCFI Polyurethanes Mount Airy, NC

R&D Manager—Product Development August 2022—May 2023

- Utilized SQL to analyze sales and operational data to provide actionable insights to R&D, sales, and operations
- Supported \$175MM+ annual sales by leading a team of 6 direct reports, and collaborated and communicated technical findings to clients and stakeholders

Sr. Formulation Chemist February 2019—July 2022

- Supported \$30MM+ annual sales by leading a team of 3 to prioritize projects and facilitate cross-functional collaboration
- Automated lab reports using Python to reduce repetitive work and improve workflow efficiency
- Led presentations of analytical results to clients and management to gain viable leads

Formulation Chemist March 2014—January 2019

- Worked collaboratively and independently in the design and analysis of new product development
- Presented analytical results to the R&D group and worked efficiently to meet deadlines and priority changes

DATA SCIENCE SIDE PROJECTS

[E-commerce Repurchasing Analysis](#)

- Performed ETL to convert customer transactional data with 80,000+ records into a Postgres database and engineered 10+ user activity features by leveraging SQL
- Applied XGBoost and random forest in Python to identify significant features influencing customer repurchase behavior
- Identified repurchase patterns, customer browsing behavior, and popular repurchase products from key features

[Fraudulent Claims dashboard in Tableau](#)

- Developed Tableau dashboard to highlight potential fraudulent insurance claims, assisting in faster identification and investigation of fraudulent claims

Gloria Su

919-903-4776 | Gsu@ncsu.edu | [LinkedIn](#)

Detail-oriented data connoisseur with a critical mind and unwavering commitment to extracting actionable insights from intricate datasets through a synergy of advanced statistical techniques, a cutting-edge computational toolset, and an inquisitive approach to domain-specific applications.

Data Science Skills: Time Series Analysis and Forecasting, Machine Learning, Multivariate Modeling, Optimization, Data Mining, Natural Language Processing, Survival Analysis, Data Visualization, Data Preprocessing

Software Tools: R, Python, SQL, Tableau, AWS

Certifications: PCEP—Certified Entry-Level Python Programmer

EDUCATION

M.S. in Analytics

May 2024

Institute for Advanced Analytics, NC State University, Raleigh, NC

B.S. in Statistics and Analytics

Dec 2022

University of North Carolina at Chapel Hill

PRACTICUM

U.S. Department of Education

Sept 2023—Present

Scrum Master

- Clean and process 300K+ data points to minimize memory usage while maintaining usability
- Use K-prototypes and KNN techniques to construct networks by connecting individuals across 30+ attributes
- Deliver well-documented and reproducible Python code to create new networks for 45M+ customers
- Estimate the effect of one's network on 5 long-term student outcomes using logistic regression, extreme gradient boosting, and neural networks to spearhead departmental outreach initiatives
- Employ Agile Scrum methodology on GitLab to effectively oversee project development

EXPERIENCE

Protiviti

Charlotte, NC

Risk and Compliance Intern

Jun 2022—Aug 2022

- Partnered with subject matter experts at a top bank to identify risks and implement Commercial Real Estate documentation process improvements for streamlined operations and enhanced cross-functional collaboration
- Implemented Microsoft Office tools to produce detailed and concise process flows, reports, and control summaries

The Princeton Review

Chapel Hill, NC

Campus Representative

Aug 2021—Dec 2022

- Amplified campus presence and growth by signing 3 new strategic partnerships within the first 3 months of hire
- Proactively led multifaceted event initiatives through effective engagement with key stakeholders, shaping collaborative brainstorming, meticulous planning, and seamless execution

DATA PROJECTS

Analysis of Boba Yelp API Data

Aug 2023—Nov 2023

- Demonstrated proficiency in Python through interactions with the Yelp API by extracting, parsing, and transforming nested JSON data to create a structured CSV dataset for in-depth analysis
- Leveraged Tableau visualizations and statistical tests in R to derive valuable business insights by conducting a comprehensive analysis and comparison of boba shops in Raleigh and New York City

Independent Research Project: Data Science at UNC

May 2021—Aug 2021

- Collaborated with Dr. Mariana Olvera-Cravioto to track interest in data science among 10K+ undergraduates
- Created data visualizations to analyze trends in Excel for the Statistics and Operations Research Department after data cleaning and target classification in SAS, contributing to the expansion of data science initiatives at UNC

Khine Thant Su

📞 608-515-0432 ✉ ktsu@ncsu.edu 🌐 [GitHub](#) [LinkedIn](#)

PROFESSIONAL SUMMARY

Skilled communicator and creative problem solver who fosters cross-team collaboration. Enthusiastic about creating innovative solutions using statistical analysis, data visualization, and modeling.

Programming: Intermediate in Python, R, SQL

Software: Tableau

Statistical Concepts: Linear and Logistic Regression, Time Series, Text Analytics, Machine Learning, Survival Analysis

Certifications: PCEP—Certified Entry-Level Python Programmer

Languages: Fluent in English, Mandarin, Burmese

EDUCATION

M.S. in Analytics Institute for Advanced Analytics, NC State University, Raleigh, NC	May 2024
M.A. in Southeast Asian History University of Wisconsin, Madison, WI	May 2019
B.A. in East Asian Studies Middlebury College, Middlebury, VT	May 2016

PRACTICUM

North Carolina Department of Health and Human Services Communication Lead	September 2023 — Current
<ul style="list-style-type: none">Utilizing Python to wrangle, clean, and merge different data sources, resulting in the novel calculation of census tract-level cancer statistics in North CarolinaAnalyzing and visualizing key trends in cancer incidence and mortality rates across time and demographics using R and PythonImplementing logistic regression, time series, and neural network models to forecast future cancer incidence and mortality using demographic features and changes in population demographicsDeveloping choropleth and cluster maps using Tableau and Plotly to identify spatial trends in cancer incidence, risk, and mortality in North Carolina	

PROFESSIONAL EXPERIENCE

University of Wisconsin—Madison Program Assistant, Graduate School Office of Professional Development	Madison, WI July 2021 — June 2023
<ul style="list-style-type: none">Identified graduate students' career needs and used targeted marketing to increase graduate student attendance of professional development events by 40% in one yearAnalyzed 3,000+ survey responses to identify key career support needs for master's studentsCommunicated trends and insights to graduate school leadership through written reports and presentations, improving graduate career servicesCoordinated 25 regular and large-scale events across UW—Madison campus, managing tasks such as budgeting, venue scheduling, marketing, catering arrangements, and speaker selection	
IDinsight Associate	Los Angeles, CA May — July 2021
<ul style="list-style-type: none">Conducted research to inform aid program designs in 4 Southeast Asian countries, collaborating closely with clients such as the Hilton Foundation and the Philippine Department of EducationAligned data strategies with project objectives, optimizing impact through targeted analysis and tailored recommendationsPrepared data visualizations and reports for internal and external clientsWrote proposals outlining process improvement strategies for projects with budgets up to \$100,000	

Hobbies: Taekwondo, cooking, international travel

Davis Swann

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Insightful storyteller capable of using advanced statistical modeling in Python and visualizing data to direct strategic business decisions and explain complex data science techniques.

Software: Python, R, SQL, Tableau, AWS

Statistical Concepts: Ridge Regression, Logistic, Linear, Time Series, Machine Learning

Certification: PCEP – Certified Entry-Level Python Programmer

EDUCATION

M.S. in Analytics, NC State University

May 2024

B.S. in Psychology, University of North Carolina

August 2021

PRACTICUM

Align Technology | Communication Lead

August 2023—Current

- Utilizing Python and R to systematically wrangle, clean, and consolidate over 30 million customer records, enhancing its usability.
- Employing dimension reduction to subset on variables that accounted for the most variation in purchase likelihood.
- Creating explanatory models to unveil the relationship between customer profiles and purchasing behaviors using logistic regression and decision trees.
- Developing machine learning models to maximize prediction accuracy using techniques such as XGBoost and random forest.

EXPERIENCE

College Advising Corps

Charlotte, NC

College Advisor

July 2022—June 2023

- Enacted professional development for 165 graduating seniors through workshops, career fairs, and trips.
- Utilized Excel to track 500+ undergraduate, job, and financial aid applications.
- Strategically advised students through career and well-being counseling during one-on-one meetings.

Chatham County Schools and Trinity School of Durham

Chapel Hill, NC

Substitute Teacher and Coach

December 2021—June 2022

- Collaborated with teachers to maximize student learning objectives with presentation planning.
- Managed behavior and discipline to effectively encourage a safe learning environment.
- Summarized difficult mathematic and lingual subjects into digestible concepts for struggling students.

Equitable Advisors

Raleigh, NC

Financial Associate

August 2021—December 2021

- Passed the Series 7, 66, and SIE exams to mentor customers by maximizing their financial status.
- Sold a myriad of financial and insurance products through constant customer communication and tracked customer interests by utilizing Salesforce and Excel products.
- Developed a familiarity with market trends and customer needs to comfortably address client concerns.

DATA SCIENCE PROJECT

Machine Learning Football Models: Used Python and R to clean and predict collegiate and professional football point spreads with an accuracy of 75% on playoff games.

VOLUNTEER

West Mecklenburg High School and Trinity School of Durham

Charlotte, NC

Assistant Coach: Basketball, Tennis

January 2022—May 2022

- Tracked and measured basketball and tennis metrics to drive calculated coaching decisions.

Danny Ta

📞 909-455-7263 ✉ dta@ncsu.edu  [LinkedIn](#)

PROFESSIONAL SUMMARY

Mathematically minded problem-solver adept at translating complex technical concepts into understandable insights for varied audiences.

Programming: Python, R, SQL

Certifications: PCEP—Certified Entry-Level Python Programmer, AWS Certified Cloud Practitioner, Tableau Certified Specialist

Languages: English, Vietnamese

EDUCATION

Master of Science in Analytics

May 2024

Institute for Advanced Analytics, NC State University, Raleigh, NC

Bachelor of Arts in Mathematics

May 2022

Pomona College, Claremont, CA

PRACTICUM

Bank of America

Charlotte, NC

Communication Lead

September 2023 — Present

- Utilizing Python and SQL to create a novel technology for client segmentation and outlier detection.
- Applying several machine learning techniques to perform unsupervised clustering on over 4 million clients.
- Optimizing modeling processes through advanced feature engineering methods.
- Implementing Agile methodologies, including Scrum, to streamline project workflows and enhance team collaboration.

PROFESSIONAL EXPERIENCE

AVID (Advancement Via Individual Determination), Ontario High School

Ontario, CA

Tutor

October 2022 — May 2023

Tutored 30 students in various subjects, including math and statistics, for a college access program.

- Led 10 weekly study sessions for 9th-12th grade students.
- Conducted binder evaluations, note assessments, and monthly grade reviews to track and support student advancement.
- Collaborated with a team of tutors to develop and implement tailored learning strategies.

Draper Center for Community Partnerships, Pomona College

Claremont, CA

Program Coordinator and Teaching Assistant

June 2019 — July 2022

Coordinated a college access program tailored to support first-generation, low-income high school students in preparing for admission to selective colleges and universities.

- Spearheaded the monthly reports committee, leveraging Excel for effective data collection, resulting in improved insight into the impact of over 10 service programs at the Draper Center.
- Assisted over 100 seniors in navigating the college admissions process via workshops on admissions, essay writing, and financial aid.
- Mentored 20 students every summer, fostering academic growth and personal development.

ANUSHA TUMMALLAPALLI

704-609-4236 • astumma2@ncsu.edu • [LinkedIn](#)

Data-driven storyteller with 2 years of financial services experience, skilled at translating data into actionable business insights. Globally minded professional passionate about utilizing the power of data to make a meaningful global impact.

Technical Skills: R, Python, SAS, Tableau, SQL, Excel

Certifications: PCEP—Certified Entry-Level Python Programmer

EDUCATION

MASTER OF SCIENCE IN ANALYTICS

May 2024

Institute for Advanced Analytics, North Carolina State University, Raleigh, NC

BACHELOR OF SCIENCE IN ECONOMICS

May 2021

North Carolina State University, Raleigh, NC

- **Honors:** Cum Laude, Omicron Delta Epsilon—Economics Honor Society

PRACTICUM

U.S. FEDERAL GOVERNMENT AGENCY

Sep 2023—Current

Program Liaison

- Implement clustering algorithms in Python to segment longitudinal data on humanitarian and societal characteristics.
- Develop a dashboard with Plotly Dash of geopolitical data to communicate insights to stakeholders.
- Utilize GitHub as a version control and collaboration platform to manage and track code changes while facilitating effective team collaboration and code review.
- Develop, train, and test machine learning models in Python to understand and predict political and security changes.

WORK EXPERIENCE

JP MORGAN CHASE & CO.

Wilmington, DE

Global Finance & Business Management Analyst

Jul 2021—Apr 2023

- Utilized Excel and Tableau to deliver routine data insights to senior User Experience and Product leaders to inform hiring and growth strategies, resulting in a 38% growth of approved new positions.
- Designed and analyzed assessments in Excel to collect employee and leadership feedback and generate insights, resulting in reduced employee attrition and improved business unit performance.
- Conducted in-depth analysis of budget and forecast reports on a Financial Planning and Analysis team, identifying variances and trends to flag and remedy potential issues in financial model outputs.
- Managed financial reports and resolved data discrepancies to ensure accuracy and efficient team operations.

ASHLEY VANN

| (919)-641-2134 | anvann@ncsu.edu | [LinkedIn](#) |

Thoughtful problem-solver capable of applying data techniques to generate valuable insights.
Skilled communicator able to translate findings into actionable steps for diverse audiences.

Software: R, Python, SQL, Markdown, LaTeX

Statistical Concepts: OLS Regression, Logistic Regression, Time Series, Machine Learning, Text Analysis

EDUCATION

Institute for Advanced Analytics, NC State University May 2024
M.S. in Advanced Analytics

Elon University May 2023
B.A. in Political Science | B.A. in Statistics | B.A. in Data Analytics Summa Cum Laude

PRACTICUM

EXOVERA Sep. 2023 – Current
Scrum Lead

- Identify signals of influence from one country to another using socio-political data
- Utilize Python to analyze 10 GB of text data, including media summaries and raw content written in a foreign language
- Perform correlative analyses in R using time-lagged cross-correlation and dynamic time-warping
- Build predictive models using regularization techniques to forecast events and messaging

WORK EXPERIENCE

ELON UNIVERSITY POLITICAL SCIENCE DEPARTMENT Elon, NC
Research Assistant August 2022 – May 2023

- Advised professors by identifying data analysis techniques that best fit the goals of their projects
- Identified key interventions influencing changes in foreign powers' governance using regression and comparative analysis in R

ELON UNIVERSITY POLL Elon, NC
Student Survey Analyst June 2022 – May 2023

- Analyzed Elon Poll data results for reports/press releases using R, Stata, Qualtrics, and Microsoft Excel
- Researched, wrote, and formatted survey questions for telephone/online political polls using Qualtrics

Student Caller | Polling Supervisor September 2019 – May 2022

- Promoted to Polling Supervisor after one year as a student caller
- Supervised 5-30 student callers for approximately 10 hours each week
- Helped to write and format reports/press releases using Microsoft Excel and Microsoft Word
- Conducted phone polling of NC residents on political opinions and NC tourism

UNDERGRADUATE RESEARCH

Statistics Degree Practicum with Benevolence Farm February 2023 – May 2023

- Created product bundles by analyzing product sales data using R
- Recommended optimal promotional times by analyzing popular purchasing windows using R
- Identified potential geographic target areas by analyzing online sale locations using Tableau

HARPER WANG

qwang34@ncsu.edu

[LinkedIn](#)

(919) 757-5890

Problem-solver with profit-driven mindset. Previous experience in Supply Chain Analysis on purchasing-related data to drive mutual benefit. Values relationships and aims to foster workplace peace through collaborative success.

SKILLS

Programming & Software : R | Python | SQL | SAS | MATLAB

Data Visualization: Tableau | Python (Matplotlib) | R (ggplot) | Adobe Photoshop | Adobe Illustrator | CapCut

Certification: PCEP – Certified Entry-Level Python Programmer, Tableau Desktop Specialist

Statistics & Math Concepts: Machine Learning | Time Series | Regression Analysis | Statistical Modeling | Long/Short Term Actuarial Modeling | Probability Theory | Econometrics | Text Analysis | Linear Algebra | Partial Differential Equations

EDUCATION

NC State University

MS in Analytics, Institute for Advanced Analytics

May 2024

BS in Applied Mathematics (Statistics & Economics Minor)

May 2023

- **President and Public Relations Chair** – NCSU Chinese Student and Scholar Association

PRACTICUM

Skin Laundry

Program Liaison

August 2023 – Current

- Clean, process, and analyze 6M+ rows of transactional data across 8 tables in SQL and Python.
- Utilize GitLab to manage project documentation and code while operating in an Agile framework.
- Perform exploratory data analysis on sales data in SQL and Python to discover new product offering opportunities for customer segmentation.
- Forecast quarterly product sales in Python across all clinics to improve inventory allocation ahead of ordering cycles.
- Develop dynamic visualization using Tableau to monitor and communicate sales performance, trends, and KPIs daily.

EXPERIENCE

Siemens

Wendell, North Carolina

Supply Chain Analyst Intern

December 2022 – June 2023

Siemens 2023 SCM Global Championship

October 2023

- Visualized cost reduction trends in Python, achieving an 85% reduction in plastic-related CO2 emissions.
- Used SQL to query, clean, and analyze 10K rows of data on purchase orders and spending across multiple commodities over the past 5 years to increase the qualification rate.
- Gathered and analyzed contracts and financial data utilizing the SAP system, facilitating data-driven decision-making.

Rat Chef

Taizhou, China

Data Scientist Internship

May 2022 – August 2022

- Built a cluster model using Python and K-means algorithm to identify different customer groups with various characters; personalized the product recommendations based on cluster results and improved overall revenue by 0.5%.
- Used SQL to collect operational data and calculate KPIs for monitoring and reporting purposes; conducted a dive-deep analysis to find root causes when KPIs were significantly above/below the benchmark.

NCSU Math Department

Raleigh, North Carolina

Math Grader

January 2021 – May 2021

- Conducted assessments and evaluated undergraduates' Partial Differential Equation exams and paper assignments.
- Utilized Excel to create and analyze grade distributions, providing professors with valuable insights into students' learning progress through comprehensive analysis reports.

Reading Partner

Taizhou, China

Sales Specialist

October 2020 – March 2021

- Achieved a \$15,000 sales deal within 6 months.
- Utilized market analysis to identify key customer segments for different education levels. Determined the age ranges and demographics of potential customers with the highest product purchase potential, optimizing marketing strategies.
- Organized a successful Christmas party for 100 attendees.

EASON WARREN

📞 252-717-0802 ✉ emwarre3@ncsu.edu  [LinkedIn](#)

PROFESSIONAL SUMMARY

Analytically minded problem-solver with a commitment to continuous self-improvement. Determined and objective-focused achiever applying data science techniques to generate insights. Detail-oriented with strong communication and interpersonal skills.

Software: R, Python, SQL, Tableau, Power BI

Certifications: PCEP—Certified Entry-Level Python Programmer

EDUCATION

Master of Science in Analytics

Institute for Advanced Analytics, North Carolina State University

May 2024

Bachelor of Arts in Economics

University of North Carolina at Chapel Hill

May 2023

PRACTICUM

Skin Laundry

Scrum Lead

August 2023—Current

- Clean, process, and analyze 6 M+ rows of transactional data across 8 tables in SQL and Python.
- Utilize Gitlab to manage project documentation and code while operating in an Agile framework.
- Perform exploratory data analysis on sales data in SQL and Python to discover new product offering opportunities for customer segmentations.
- Forecast quarterly product sales in Python across all clinics to improve inventory allocation ahead of ordering cycles.
- Develop a dynamic visualization using Tableau to monitor and communicate sales performance, trends, and KPIs on a daily basis.

PROFESSIONAL EXPERIENCE

Ernst & Young

Technology Risk Consulting Intern

Raleigh, North Carolina
June 2022—August 2022

- Created an interactive Power BI dashboard to provide real-time updates for 16 systems to the client.
- Performed detailed walk-through documentation for Oracle, NetSuite, and Jira software systems.
- Executed a test of control, providing user access for over 3,000 employees for 8 software systems.

North Carolina Department of Commerce

NC Works Intern

Greenville, North Carolina
May 2021—July 2021

- Directed and managed job fairs for 30 restaurants and businesses in Northeastern North Carolina.
- Developed a newsletter informing people about events in Northeastern North Carolina.
- Assisted with outreach opportunities for over 20 local businesses in the post-pandemic world.

VOLUNTEER

Chapel Hill High School

Varsity Baseball Assistant Coach

August 2022—June 2023

- Reduced team earned run average (ERA) from 6.02 to 1.93.
- Implemented a separate arm strength program for 8 players.
- Promoted to paid assistant coach after 1 year of volunteering.
- Earned 2023 North Carolina Baseball Coaches Association Region 3 Assistant Coach of the Year.

Shannon Wells

📞 757-608-8353 ✉ swells5@ncsu.edu  [LinkedIn](#)

PROFESSIONAL SUMMARY

Enthusiastic question-asker who utilizes an interdisciplinary background to solve complex problems. A skilled data analyst and creative storyteller, proficient in advanced statistical modeling and data visualization techniques, with the ability to convey findings to diverse audiences.

Software: Python, R, SQL, Power BI, Excel, Stata

Certifications: PCEP—Certified Entry-Level Python Programmer, Tableau Desktop Specialist

EDUCATION

North Carolina State University

MS Analytics, Institute for Advanced Analytics

MA International Studies, Policy Analysis Graduate Certificate

Raleigh, NC

May 2024

May 2023

PRACTICUM

Align Technology

August 2023 — Current

Scrum Master

- Utilizing **Python** and **R** to systematically wrangle, clean, and consolidate over 30 million customer records, enhancing its usability.
- Employing dimension reduction to subset on variables that accounted for the most variation in purchase likelihood.
- Creating explanatory models to unveil the relationship between customer profiles and purchasing behaviors using **logistic regression** and **decision trees**.
- Developing machine learning models to maximize prediction accuracy using techniques such as **XGBoost** and **random forest**.

PROFESSIONAL EXPERIENCE

Economic Development Partnership of North Carolina

Raleigh, NC

Research Analyst

May 2022 — May 2023

- Coordinated 80 projects with business recruitment that brought in 13,572 new jobs and over \$7.7 billion in capital investment using statistical methods and software, such as **R** and **Excel**.
- Maintained 4 databases using **Power BI** to support the analysis and visualization of essential economic and community data for internal teams.
- Synthesized monthly trade data and highlighted growing industries to make recommendations to the International Trade Team, helping to increase international exports by \$421 million.

East-West Center

District of Columbia

Research Fellowship

August 2021 — December 2021

- Assembled and analyzed datasets on international trade, investment, and jobs for two government funded research publications using **R** and **Excel**.
- Wrote and published 9 articles for AsiaMattersforAmerica.org, including topics on FDI, the environment, and local connections between the US and Indo-Pacific region.
- Constructed 20 communication briefs on legislation, press releases, and educational panels on topics such as supply chain security, technology, trade, and investment policy.

Japanese Exchange and Teaching Program

Niigata, Japan

English Language Teacher

August 2019 — June 2021

- Facilitated international exchange and learning opportunities through workshops in partnership with the local government.
- Showed adaptability by teaching over 1,000 students at 6 different schools while creating over 40 lesson plans and collaborating with other teachers in Japanese.