

Alexander Young

www.linkedin.com/in/alexander-young22

alexianyoung0203@gmail.com

+1 (919) 935-1559

Available Immediately

Professional Summary

I am a recent graduate with a BSc in Applied Mathematics, eager to apply advanced skills in Python, R, MATLAB, and SQL for statistical analysis, predictive modeling, and data visualization. Passionate about transforming complex datasets into actionable insights that drive informed business decisions and sustainable growth. Committed to continuous learning and leveraging strong communication, collaboration, and problem-solving skills to excel in data-focused roles.

Relevant Professional Experience

MCM / ICM Mathematical Modeling Competition hosted by COMAP

Team Leader

April 2024

- Led a team analyzing psychological momentum in sports, leveraging R to process large real-world datasets of 500+ variables.
- Conducted rigorous data wrangling and statistically significant variable selection for robust, data-driven models.
- Devised a predictive model in MATLAB, boosting model accuracy by 20% over baseline.

Great Walls of Water: The Pandemonium and Phenomena of Rogue Waves

Researcher

January 2024 - May 2024

- Coordinated a team investigating rogue wave behavior using the NLSE and Gerstner's equations, comparing model outputs to known solutions and improving simulation accuracy by 15%.
- Utilized Fast Fourier Transforms (FFT) to build MATLAB models simulating wave solutions, raising computational efficiency by 20%.
- Co-authored a scholarly article and presented findings to 300+ attendees, showcasing strong communication and technical translation skills.

University of North Carolina at Wilmington

Teaching Assistant

January 2024 - July 2024

- Implemented data-driven teaching strategies, elevating exam scores by 10% across three Engineering Calculus courses.
- Applied analytical skills to evaluate trends, act on insights, and enhance student comprehension.
- Arranged a mentorship program for 100+ students, raising engagement and motivation.
- Refined communication skills for complex concepts to engage stakeholders, an essential skill in analytical presentations.

Education

Bachelor of Science, Applied Mathematics

University of North Carolina Wilmington

July 2024

- Recognized on the Dean's List by the College of Science and Engineering for outstanding academic performance.

Skills

Data Analysis:	- Statistical Analysis, Data Wrangling, Statistical Techniques
Machine Learning:	- Predictive Modeling, Classification, Regression, Clustering, SciPy, Scikit-Learn, Machine Learning Algorithms
Data Visualization / Analytics:	- Excel, R Markdown, Jupyter Notebooks, Data Visualization with Python
Database Management:	- SQL, MySQL, Cloud Databases, RDBMS
Programming:	- Python, R, MATLAB, HTML, JavaScript
Version Control:	- Git, GitHub
Mathematical Software:	- R Studio, Maple, MATLAB, Simulink
Soft Skills:	- Team Collaboration, Problem Solving, Analytical Thinking
Data Management:	- Big Data Technologies, Data Storytelling
Languages:	- English (<i>Native</i>), German (<i>Basic</i>)

Certifications

IBM: Machine Learning with Python (with Honors)	January 13, 2025
Machine Learning, Clustering, Regression, classification, SciPy and Scikit-Learn	
IBM: Data Analysis with Python	December 16, 2024
Model Selection, Data Analysis, Python Programming, Data Visualization, Predictive Modeling	
IBM: Databases and SQL for Data Science with Python (with Honors)	November 8, 2024
Python, Cloud Databases, RDBMS, SQL, Jupyter notebooks	
IBM: Python Project for Data Science	October 26, 2024
Data Science, Data Analysis, Python, Pandas, Jupyter Notebooks	
IBM: Python for Data Science, AI & Development	October 18, 2024
Pandas, NumPy	
IBM: Data Science Methodology	October 8, 2024
CISP-DM, Data Mining	
IBM: Tools for Data Science	October 6, 2024
GitHub, Jupyter Notebooks	
IBM: What is Data Science?	October 4, 2024
Big Data, Deep Learning	

Additional Experience

Uber	February 2021 - Present
Rideshare Driver	
Ruth's Chris Steakhouse	January 2023 - December 2023
Fine Dining Server	
BestBuy Warehouse	May 2022 - December 2022
Process of Shipment, Fraud Detection, Risk Mitigation	
Travel Sabbatical	December 2021 – May 2022
Germany, France, Bulgaria, North Macedonia, Italy, Greece, Portugal, Czechia, United Kingdom, Ireland, and Netherlands	
Pama Ceia Golf & Country Club	June 2019 - June 2021
Bartender	
The Bridge Tender	August 2017 - May 2019
Fine Dining Server	