

Alexander Young

Data Analyst / Data Scientist

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Wilmington, NC

Professional Summary

Aspiring Data Analyst / Data Scientist with 7 years of experience gained through academic projects, research, and teaching roles. Expertise in data analysis, statistical techniques, and programming with Python, R, MATLAB and SQL. Proficient in interpreting complex datasets, developing predictive models, and making data-driven decisions. Proven ability to collaborate in cross-functional teams and deliver results through effective problem-solving and data storytelling.

Skills

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|---------------------------------------|--|
| Data Analysis | Statistical Analysis, Data Wrangling, Statistical Techniques |
| Machine Learning | Predictive Modeling, Classification, Regression, Clustering |
| Data Visualization / Analytics | Excel, R Markdown, Jupyter Notebooks |
| Database Management | SQL, MySQL |
| Programming | Python, R, MATLAB, Machine Learning Algorithms |
| Mathematical Software | R Studio, Maple, MATLAB, Simulink |
| Soft Skills | Team Collaboration, Problem Solving, Analytical Thinking |
| Data Management | Big Data Technologies, Data Storytelling |
| Tools | GitHub, LaTeX |
| Spoken languages | English, German, Bulgarian |

Education

Bachelor of Science, Applied Mathematics

University of North Carolina Wilmington,

July 2024

- Achieved a GPA of 3.2, demonstrating a solid understanding of applied mathematics principles and problem-solving.
- Recognized on the Dean's List by the College of Science and Engineering for outstanding academic performance.

Bachelor of Science, Chemical Engineering

University of South Florida,

Ongoing

- Working towards a Bachelor of Science degree in Chemical Engineering and have 53 credit hours remaining before completion.

Relevant Professional Experience

University of North Carolina at Wilmington

Teaching Assistant

January 2024 - July 2024

- Worked in close collaboration with faculty to devise and implement effective teaching strategies, resulting in a measurable enhancement in course comprehension and an average increase of 10% in student exam scores.
- Led the development and implementation of a comprehensive mentorship program across 3 Engineering Calculus courses, improving students' comprehension, motivation and overall academic performance.

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

Researcher

January 2024 - May 2024

- Directed a team in analyzing Rogue Ocean Waves and equations such as the Nonlinear Schrödinger Equation (NLSE) and Gerstner's parametric equations.
- Applied methods including Fast Fourier Transforms (FFT) and generated sophisticated models in MATLAB that explored known solutions.
- Co-authored a scholarly article and delivered a Beamer presentation to the mathematics department.
- Presented research at a university-wide capstone conference attended by over 300 students and faculty members from various disciplines.

MCM / ICM Math Modeling Competition hosted by COMAP

Team Leader

April 2024

- Performed in-depth statistical research and analysis on the effects of psychological momentum in sports, utilizing R for data processing.
- Orchestrated the development of predictive algorithms in MATLAB, resulting in a model that analyzed 500+ variables; the advanced analytic capability contributed to a 20% increase in model performance for competition assessments.

Additional Experience

Ruth's Chris Steakhouse

January 2023 - December 2023

Fine Dining Server

Travel Sabbatical

December 2021 – December 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