

# Alexander Young

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Available Immediately

## Professional Summary

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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

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### 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

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### 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

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

## Certifications

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

## Additional Experience

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