

William Skelly

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EDUCATION

Duke University | Durham, NC

Expected May 2026

- Intended Degree: Major in Data Sciences (Computer Science and Statistics Interdisciplinary Major), Minor in Finance, Minor in Chinese Language
- Relevant Coursework: Elements of Machine Learning, Probability for Statistics, Data Structures and Algorithms, Regression Analysis: Theory and Applications

GPA 3.63

Mounds View High School | Shoreview, MN

May 2022

- GPA 3.9, ACT 35

University of Minnesota Talented Youth Math Program | Minneapolis, MN

May 2022

- 5-year accelerated math program through middle and high school at an accredited university.

ATHLETIC LEADERSHIP EXPERIENCE

Division I Student-Athlete | Men's Cross Country & Track and Field

2022 – Present

- Balancing 20+ hours a week of running, conditioning, traveling and competing as a three-season athlete while maintaining a 3.63 GPA
- Actively foster a tight-knit team culture by sharing experience with younger teammates, learning from team leaders and bridging the gap between personal and team-oriented goals.

PROJECTS & RESEARCH

Proteomics Analysis | Orthopaedics Department, Duke School of Medicine

2024 – Present

- P.I. is Dr. Leonardo Ferreira, PT, PhD
- Muser Project, contributing to preprint publication using MS based bottom up proteomics method to create data visualizations
- Visualizations include intensity histograms, volcano plots, pairwise correlation plots, and spatial proteomics using PCA.

Trade Arena | [Github Repository](#)

2024 – Present

- Built a full stack web application, utilizing React and Next.js for frontend and backend logic, MongoDB for the database, and Firebase for authentication.
- The website is a paper stock trading game, where users can join challenges and compete against others to earn badges

ASA DataFest | Duke University

2024

- Collaborated in a team of four to analyze trends within an unorganized dataset, created data visualizations in R, and presented our findings to a panel of industry professionals and Duke faculty.

Web Scraping

2023

- Successfully taught myself how to build a web scraper from scratch using Python to collect track and cross country athletic data, and analyzed sports performance at Duke using data visualization tools in R.

Corporate Valuation Competition | Duke University

2023

- Constructed DCF and LBO models and performed comparables analysis on a faux eyeglasses company to guide shareholders' investment decisions for 2023 and beyond.

WORK EXPERIENCE

Coder AI Training | Outlier AI

2024

- Wrote prompts in Python and Java and critiqued the AI model's code responses on the axes of correctness, completeness and relevance to the prompt.

SKILLS AND INTERESTS

- Language: Advanced Chinese speaking and comprehension
- Technical: Proficient in Python, Java, R, C, Javascript, Typescript
- Interests: Running, hiking, philosophy, watching movies