

Permanent Address

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Connor McCarthy

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Current Address

118 College Ave
Ithaca, NY 14850

EDUCATION**Cornell University | B.S. in Computer Science, Business Minor**

Ithaca, NY

Cumulative GPA: 3.60 | College of Engineering | Dean's List | Lockheed Martin Mentee

Expected May 2023

Relevant Coursework: Analysis of Algorithms, Data Structures & Functional Programming, Intro to Machine Learning, Intro to Databases, Object-Oriented Programming & Data Structures, Discrete Structures, Linear Algebra.

Scarsdale High School

Scarsdale, NY

1570 SAT: 800 Math, 770 English | GPA: 3.97 | National Merit Scholarship Recipient

Sept. 2015 – June 2019

RELEVANT EXPERIENCE**SafeGraph**

New York, NY (remote)

Software Engineering Intern

June 2021 – Aug. 2021

- Built an inference environment replicating production logic that determines when a POI has opened or closed, facilitating iteration.
- Implemented improvements identified within above environment in Scala production pipeline, increasing the inference rate by 7%.
- Added custom tooling for the product team to easily mark a subset of ~7000 weekly crawl files for reprocessing.
- Presented my findings and technical changes to the engineering team and then entire company in a end-of-internship presentation.
- **Implemented using:** Scala, Python, PostgreSQL, AWS S3, Elm, Databricks

Cornell Rocketry Team

Ithaca, NY

Electronics & Software Subteam Member

Sept. 2019 – Present

- Constructed GUI with Java to display critical flight statuses & supervise launch vehicle, retrieving data from PostgreSQL database.
- Implemented a system that translates the RF signals from the airborne rocket and stores these datapoints as entries in the database.
- Developed procedural programming layer in C to interface flight control board with a Wi-Fi module, allowing wireless data transfer.
- Worked with a team of 5 to develop tests and report on many aspects of our project to the rest of the NASA award-winning team.
- **Implemented using:** Java, C

Cayuga Capital Cornell

Ithaca, NY

Algorithmic Trading Team Lead, VP of Team Leads & Allocation

Aug. 2019 – Present

- Led development of Python trading program which utilizes many data sources, backtesting, with automated trade execution.
- Created the Python test suite which ensures the veracity of the entire codebase and maintains correctness between each improvement.
- Work with team of 6 to develop signal-generation algorithms using various fundamental, technical, alternative, and ML techniques.
- Optimized this program for performance by implementing more OO design, a TimescaleDB database, & reducing API requests.
- **Implemented using:** Python, TimescaleDB, Numpy, Pandas, API, Matplotlib

São Martinho

Pradópolis, São Paulo, Brazil

Software Engineering Intern

June 2019 – Aug. 2019

- Learned about and worked with the software control systems regulating continuous operation of the world's largest sugar mill.

OTHER EXPERIENCE**Blue Logic Capital**

Columbus, OH (remote)

Venture Capital Intern

June 2020 – Aug. 2020

- Led research and performed due diligence on investment opportunity, creating financial projections to model future growth and ROI.

SKILLS & INTERESTS

Skills: Java, Python, OCaml, Scala, Git, PostgreSQL/SQL, \LaTeX , Amazon AWS, Jupyter, API requests, R, Bash, Spark

Projects: Monopoly implemented in OCaml, COVID-19 predictions with ML, capacitive touch interface for students with disabilities

Other: I love basketball (Knicks fan) & cars (worked as a mechanic), play the clarinet & saxophone, and am a citizen of 3 countries!