Michael Moore

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EDUCATION

Cornell University — Ithaca, NY
Master of Engineering in Computer Science — *January 2025 - December 2025*

Cornell University — Ithaca, NY
Bachelor of Arts in Computer Science — *September 2020 - May 2024*

Relevant Coursework

- Analysis of Algorithms
- Data Structures and Functional Programming
- Operating Systems

EXPERIENCE

Algorithms Teaching Assistant — Feb 2024 – May 2024
Cornell University — *Ithaca, NY*

- Facilitated weekly discussion sessions to clarify key algorithmic concepts including dynamic programming, graph theory, and computational complexity.
- Provided one-on-one and group tutoring to reinforce students' understanding of algorithm design and analysis..
- Managed office hours, helping students debug code and improve efficiency of their algorithm implementations in Python and Java.

IT Intern — May 2022 - August 2022
American Monument — *Englewood, NJ*

- Managed a large database of clients' data using **Google Sheets**, as well as **Python** and **PostgreSQL**
- Handled input of new client data, and handled the migration of large amounts of physical data into the database
- Assisted in technical issues with the sales staff on a day to day basis

PROJECTS

Cornell Final Exam Scheduler

React, MondoDB, Express, JavaScript, HTML, CSS

- Final exam scheduler/planner that utilizes **webscraping** to gather up to date data
- Application allows users to notice and address scheduling conflicts before the conflict deadline
- Users can add and remove finals from their cart by searching for them in the **MongoDB** database
- Frontend designed in **Figma**, then implemented using **React**

DishDuet

HTML, CSS, Flask, SQL, Python

- Recipe Search Application built using **Flask**
- Search was implemented using **Cosine Similarity**, **Boolean NOT search**, **Singular Value Decomposition**, as well as a Term Document Matrix
- Site allows for **adhoc** search of a recipe, as well as preset filters, such as vegan, vegetarian, etc.

TECHNICAL SKILLS

Languages: C#, C++, Python, JavaScript, Java, HTML, CSS
Frameworks: .NET, React, Flask, Node.js, Spring Boot
Developer Tools: Git, Docker, VSCode, Atom
Libraries: Pandas, NumPy, MatplotLib
Databases: PostgreSQL, MongoDB

PERSONAL

Nationally Ranked Powerlifter | *Cornell Barbell Club* — April 2023 – Present

- 2023 Ivy League Powerlifting Cup Champion and Total Record Holder

Eagle Scout | *Troop 45, Warwick NY* — March 2020 – Present

- Bronze, Gold and Silver Palm Recipient