Ayman Noreldaim

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EDUCATION

Massachusetts Institute of Technology   **Cambridge, Massachusetts**
B.S in Computer Sci & Artificial Intelligence and minor in Economics   Expected Graduation: May 2027

- **GPA:** 4.9/5.0
- **Related Coursework:** Intro to Data Science, Intro to Algorithms, C and Assembly, Microeconomics, Fundamentals of Programming

University of Iowa   **Iowa City, Iowa**
Supplemental classes while in high school   August 2021 - May 2023

- **Related Coursework:** Multivariable Calculus, Data Structures, Algorithms, Functional Programming, Computer Architecture

SKILLS

Programming: Python, JavaScript, CSS, HTML, Java, NumPy, Matplotlib, C, Assembly, TypeScript, Haskell

Tools: Jupyter Notebook, Git, SSH, Firebase, Visual Studio, React, tailwind.css, Angular, MongoDB & Mongoose

Languages: English, Arabic (Limited Working Proficiency)

Courses and Certificates: Google's Machine learning Course, Google's AI Prompt Engineering Course

EXPERIENCE

Birth By Us, Software Engineering Intern *June 2024 – August 2024*

- MIT PKG Social impact internship with the purpose of developing an app to help black mothers through the pregnancy and postpartum process.
- Helped build backend by using mongoose APIs to pull and manipulate sensitive data to the client side using angular.
- Implemented external front-end libraries like pdfmake and chart.js to display informational features to users.
- Facilitated collaboration and communication among interns by organizing and leading regular meetings.

Future Circular Collider Analysis, Undergraduate Researcher at MIT *Dec 2023 – May 2024*

- Used Collider Monte Carlo Simulation samples to reconstruct the mass of the W Boson. One method included measuring the effective cross sections of quarks the W boson decays into by finding which energy levels return maximal values. Presented at the Annual FCC Conference at MIT (April 2024).
- Research included working with tools like Jupyter Notebook, SSH, Python, and CERN virtual environment.

PROJECTS

Personal Website - https://aymann.vercel.app   **Iowa City, Iowa**
Solo Project   *Jan 2022 – Present*

- Created an open-source portfolio website using languages like HTML, CSS, and JavaScript, front end frameworks like React, Next.js, and tailwind.css, and backend frameworks like Node and Firebase to demonstrate web-development skills. Utilized Vercel as a host.

Spotify Web Scraper   **Iowa City, Iowa**
Solo Project   *Jul 2024 – Present*

- Used Spotify API to scrape playlists and make equivalents on YouTube music (my preferred app because of cost).

ACTIVITIES AND LEADERSHIP

National Society of Black Engineers – *Member*

Cross Country and Track and Field – *Member (on MIT's Varsity Team, 8th year in total)*

Scholars of Finance – *Member*