Maximo Machado

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EDUCATION

Massachusetts Institute of Technology | **GPA: 5.0 / 5.0**   September 2019 – May 2023
Candidate for Bachelor's Degree in Computer Science and Engineering   Cambridge, MA

- Relevant Coursework: Intro to Embedded Systems, Intro to Machine Learning, Intro to Algorithms
- Planned Coursework: Intro to Operating Systems, Microcomputer Project Lab, Elements of Software Construction

WORK EXPERIENCE

CUDA Performance Intern   June 2022 – August 2022
NVIDIA   Virtual

- Prototyped cache improvements resulting in 2-3x performance increase
- Implemented performance benchmarks and investigated pertinent conclusions based off of data
- Presented findings to CUDA Performance team and broader CUDA team as possible inclusion into production

Product Engineering Intern   June 2021 – August 2021
John Deere   Virtual

- Created and maintained CI/CD pipelines deploying code onto AWS services
- Migrated essential licensing encryption servers to new testing environment
- Developed and demoed proof of concepts to other teams and interested parties for upcoming products

Full Stack Web Developer Intern   August 2020 – November 2020
Falcn Lab LLC   Virtual

- Architected and built an internal Customer Relationship Management (CRM) website
- Designed a SQL database schema with careful attention paid to normalization
- Improved the admin tools of a pre-existing Content Management System (CMS) for the company's website

PROJECTS

Spotify Playlist Manager   December 2020
Sole Developer

- Created a website, spotifyplaylistmanager.net, designed for Spotify users to manipulate and manage their playlists in new and exciting ways
- Pushed nearly 200 commits to the GitHub repository while learning a large array of knowledge from full-stack development to deploying a website on a local desktop with NGINX
- Maintaining website with logging and periodic automated health checks to serve a peak 200 monthly users

Courseroad   September 2019 – December 2020
Team Member and Maintainer

- Extending features and improving usability of a website designed to plan academic schedules at MIT
- Maintaining a large codebase and database with frequent updates to keep in sync with MIT's class catalog
- Implemented petitioning classes giving the user more power to keep track of their progress

EXPERIENCES

MIT Undergraduate Practice Opportunities Program (UPOP)   October 2020 – August 2021

Participant

- Participated in a year-long program preparing students for success while navigating the workplace
- Completed a 3-day intensive workshop taught by esteemed MIT faculty and industry professionals diving into topics such as effective communication, problem-solving skills, and teamwork

SKILLS

Programming Languages: *Python, Javascript, C, C++*
Frameworks: *React, Node.js, Express, Vue.js, Arduino*
Other Tools: *AWS, Drone.io, Terraform, NGINX, Git, PostgreSql*