Maximo Machado

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EDUCATION

Massachusetts Institute of Technology | **GPA: 4.8 / 5.0**   September 2019 – May 2023
Candidate for Bachelor's Degree in Computer Science and Engineering   Cambridge, MA
- Relevant Coursework: Performance Engineering, Intro to Operating Systems, Computational Photography

WORK EXPERIENCE

CUDA Performance Intern   June 2022 – August 2022
NVIDIA   Virtual
- Prototyped cache improvements resulting in a 2-3x performance increase
- Implemented performance benchmarks and made 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
- Led development and demos for greenfield team's proof of concepts to interested parties for upcoming products
- Created CI/CD pipelines deploying code onto AWS services using infrastructure-as-code tools such as Terraform
- Migrated essential licensing encryption servers to new testing environment, providing much-needed added security

Full Stack Web Developer Intern   August 2020 – November 2020
Falcn Lab LLC   Virtual
- Architected a Customer Relationship Management (CRM) that provided organizational benefits to company
- Designed a SQL database schema with careful attention paid to normalization
- Assisted company's ability to post new content and articles by extending the feature set of the admin tools for a Content Management System (CMS)

PROJECTS

Spotify Playlist Manager   December 2020
Sole Developer
- Created a website that serves an average 150 monthly users, spotifyplaylistmanager.net, that expands Spotify user's abilities to manage and manipulate their playlists
- Pushed nearly 200 commits to the GitHub repository while learning a large array of knowledge from full-stack development to deploying a website on local hardware with NGINX
- Wrote performant code by caching API requests and queuing jobs to sustain high server load

Courseroad   September 2019 – December 2020
Team Member and Maintainer
- Extended features and improved usability of a website designed to plan academic schedules at MIT
- Maintained 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

SKILLS

Programming Languages: *C, C++, Typescript, Python, RISC-V Assembly*
Frameworks: *Node.js, React, Vue.js, Arduino*
Other Tools: *AWS, Drone.io, Terraform, NGINX, Git, Perforce, PostgreSql*