Joshua Cordero

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EDUCATION

University of California, Irvine, Irvine, CA **Fall 2021 - Spring 2024**

- B.S Computer Science // Expected Graduation: Spring 2024
- **GPA:** 4.0

SKILLS

- **Languages:** Python, JavaScript, C++, C, TypeScript, SQL, MIPS
- **Technologies:** React, MongoDB, MySQL, git
- **Design:** Fusion 360

WORK EXPERIENCE

Amazon, Sunnyvale, CA **June 2023 - September 2023**

QA Engineer Intern

- Developed new workflow automation for testing software
- Coordinated the transition to a new testing build environment
- Created custom audio validation algorithms using **Python** to verify validity of testing methods

AONDevices, Irvine, CA **September 2022 - January 2023**

Web Development Intern

- Developed API using **Nodejs, Typescript,** and **Expressjs**
- Developed fronted applications with **React**

Applied Medical, RSM, CA **June 2022 - September 2022**

ATS Technician Intern

- Developed automation to optimize daily activities for Team Members
- Provided technical support for other Team Members

PROJECTS

Real-Time Basketball Shot Predictor **2023**

- Developed a program to predict if a basketball will go into the net. Basketball is located in 3D space through **triangulation** from image pairs from **stereo cameras**
- Created ball detection, tracking, hoop detection, triangulation, and prediction algorithms that can run in real-time and process each set of frames in under 30ms. Built with **Python**

Search Engine **2023**

- Wrote a search engine from the ground up capable of handling thousands of documents through custom data storage methods, able to generate query responses in under 200ms
- Developed using **Python** with a group of three other students

Cypress **2021-Present**

- A progressive web app designed for service-oriented companies allowing for easy customer and service management. Started the project with the goal of bettering my understanding of web development
- Used **Nodejs, TypeScript, Expressjs,** and **MongoDB** for the backend and **React** for the front end. Deployed on Ubuntu Server

Maze Generator and Solver **2022**

- Developed a maze generator that creates and visualizes mazes
- Uses 3 different pathfinding algorithms and 2 different generation algorithms
- Built with **Python**

Data Logger **2019**

- Implemented a data logging system to monitor the wastewater of a chicken plant allowing for instant access to several water tests
- Used **C++** for the hardware interaction and **Python** to send data to google sheets with googles sheets API