Joshua Cordero

Sunnyvale, CA | joshcordero2134@gmail.com | www.linkedin.com/in/joshua-cordero | https://joshcordero.com

SKILLS

- **Languages:** Python, JavaScript, C++, C, TypeScript, SQL, Java
- **Technologies:** React, git, MongoDB, MySQL, JMeter, docker, AWS

EDUCATION

University of California, Irvine, Irvine, CA **September 2021 - June 2024**

- B.S Computer Science
- **GPA:** 4.0

WORK EXPERIENCE

AWS, Sunnyvale, CA **July 2024 - Present**

Software Dev Engineer

- Current Position

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

QA Engineer Intern

- Coordinated the transition to a new build variant, collaborating with stakeholders and device owners to schedule tests and ensure a smooth integration process
- Developed a **Python**-based algorithm to perform similarity comparisons on test audio signals, leveraging spectral analysis techniques such as Fast Fourier Transform (FFT), enabling accurate and efficient evaluation of audio quality

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

Web Development Intern

- Worked on API endpoints built with **Nodejs, Typescript,** and **Expressjs**
- Created dashboard components for the **React** application

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

ATS Technician Intern

- Developed workflow automation scripts in **Python** to optimize daily activities for Team Members
- Provided technical support and troubleshooting for team members, ensuring smooth operations

PROJECTS

Real-Time Basketball Shot Predictor **November 2023**

- Developed a program to predict whether a basketball will go through the hoop using 3D **triangulation** from **stereo camera** image pairs
- Trained **Machine Learning** Object Detection model (YOLOv8) on a custom image set to detect the ball, used in conjunction with background subtraction techniques to improve performance
- Designed and Implemented ball detection, tracking, hoop detection, triangulation, and prediction algorithm pipeline that can process each set of frames in under 30ms, using **Python**

Search Engine **April 2023**

- Worked with a team of 4 to create a search engine and web scraper from scratch capable of handling thousands of documents with custom data storage methods
- Developed the search engine using **Python**, enabling query responses in under 200ms

Cypress **2021-Present**

- A progressive web app for service-oriented companies to manage customer and service operations
- Built with **Docker**, **Node.js**, **Express.js**, **MongoDB**, and **React**
- Developed Vehicle Routing Problem (VRP) heuristic to create optimized route planning for technicians

Maze Generator and Solver **February 2022**

- Developed a maze generator that creates and visualizes mazes, using three different pathfinding algorithms and two-generation algorithms
- Built the project using **Python** and created visualizations with PyGame