

Holden Adamec

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EDUCATION

University of California San Diego

Computer Engineering Major

- 3.7 GPA

La Jolla, CA

Class of 2024

Los Gatos High School

- 4.4 GPA

Los Gatos, CA

Class of 2020

EXPERIENCE

Autonomy and AI Intern

General Atomics Aeronautical Systems

Poway, CA

Summer 2022

- Wrote python interface to allow toy RL model to be run on a physical aircraft. News article link [here](#)
- Dockerized code environment for easy testing on different systems and quick deployment
- Optimized docker image from 14GB to under 2GB and reduced build time with multistage build
- Documented code using UML diagrams and python docstrings for successful deployment after leaving

Virtual Tech Camp Instructor

iD Tech

Los Gatos, CA

Summer 2021

- Coached a group of students with little to no experience on the basics of Javascript and game dev
- Designed a custom curriculum tailored towards the interests and skill level of my students

Member

SEDS@UCSD

San Diego, CA

October 2020 - June 2021

- Programmed ground control software in python for remote communication with a test stand
- Designed custom PCBs and selected sensors for avionics of a hydrogen peroxide monoprop rocket

Robotics Team Programming Lead

FRC Team 972: Iron Claw

Los Gatos, CA

September 2017 - June 2020

- Managed a 14 student programming team while working with other subteams to create requirements
- Trained more than 20 students in basic programming concepts and control systems design
- Used GitHub Project board and scrum daily standups to ensure smooth development and integration
- Wrote and tuned PID controllers to precisely control integral elements on competition-winning robots

PROJECTS

Discord Digest Bot

Python, MongoDB, Heroku

- Developed functions using mongoose to interface the discord bot with a MongoDB Atlas cluster
- Setup Heroku to host bot and automatically deploy new changes when code is pushed to GitHub

MagikVision Pitch Viewer

Javascript, PWA

- Custom video player for viewing each pitch in a softball game with Node.js and MondoDB backend

SKILLS

Languages: Python, Javascript, Java, C++, C, HTML, CSS, Bash

Software: Docker, Git, GitHub, Unix, MongoDB, Nginx, Node.js, OpenCV, Heroku, Vim, PWA, Figma

Coursework: Advanced Data Structures, Design & Analysis of Algorithms, Software Tools & Techniques, Software Engineering, Linear Algebra