

Holden Adamec

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I love exploring challenging problems and designing high quality software solutions. You'll find me to be a quick learner and eager to work with others.

EDUCATION

University of California San Diego

Computer Engineering Major

- 3.675 GPA
- Coursework: OOP in Java, C Programming, AP Computer Science A
- Clubs: SEDS, ACM

La Jolla, CA

Class of 2024

Los Gatos High School

4.4 GPA

Los Gatos, CA

Class of 2020

EXPERIENCE

Software Intern

MagikVision

Los Gatos, CA

Summer 2019

- Used OpenCV tracking and number recognition to find frame loss in over 100 broken YouTube videos
- Implemented a binary search to identify where the errors in the video stream occurred and fix them
- Employed YouTube API to extract data about the videos as well as pulling frames for OpenCV analysis
- Created a progressive web app with custom controls for scrubbing through long sports recordings ([link](#))

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

Fake Slack Quote Generator

Javascript, PWA

- Utilized HTML forms to get quote data from the user and processed it with front-end javascript
- Used html2canvas library to render fake quotes before converting them to downloadable png files

KDE Dynamic Mojave Wallpaper

Python, Astral

- Fetched sunset and sunrise times at the user's current location using python astral library
- Programmed an algorithm to choose the wallpaper that best fits the current angle of the sun
- Used crontab to run the script periodically which made the wallpaper change with the time of day

SKILLS

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

Software: MongoDB, Nginx, Node.js, Git, Unix, OpenCV, Heroku, VIM, PWA, Figma

Interests: 3D Graphics, Rockets, Rock Climbing, Hiking