

Aaron Gee

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Project Experience

Fire Detection Drone

Prototyped low-cost semi-autonomous aerial drone with fire detection capabilities using Python. Developed the drone's fire detecting program using **OpenCV** to combine **traditional image processing techniques** and **thermal imagery** to accurately identify the presence of fires with low latency and power consumption. **Communicated software-oriented ideas** and **delegated equal project responsibilities** with teammates to more efficiently develop better prototypes.

Ride Organizing Application

Created a web-based ride organizing application using **HTML**, **CSS**, **Javascript**, & **React** for the frontend, and **NodeJS** for the backend. Application supported user authentication with **Auth0** and saved events, rides, drivers, and passengers with **MongoDB**.

Raspberry Pi HVAC Simulator

Designed a "HVAC simulator" using a **Raspberry Pi 5** and various external sensors. External sensor components would send **temperature, humidity, and motion** data to the RPi, which would then output a display composed of **LEDs** and a **LCD**.

Project Portfolio Website

Developed a personal portfolio website using **HTML**, **Javascript**, **React**, and **Tailwind**. Website supports safe page routing using **React Router** and a real-time changelog using **GitHub Apps**.

Education

Computer Science and Engineering, B.S. (Oct 2020 ~ June 2024) | *University of California, Irvine*
GPA 3.347

Relevant Courses

Programming	Embedded Software, Data Structures, Algorithm Analysis & Design, Systems Engineering, Internet Applications Engineering, Computer Networks, Principles of Operating Systems
Math	Multivariable Calculus, Linear Algebra, Differential Equations, Boolean Logic, Discrete Mathematics
Computer Engineering	Digital Systems & Logic, Organization of Digital Computers, Network Analysis
Others	Professional Communication

Skills

Computer Languages:	Python, C++, Java, C, Assembly, JavaScript, HTML, CSS, Verilog
Tools/Frameworks/	Eclipse, VIM, PyCharm, IntelliJ, Visual Studio, Notepad++, Vivado, GitHub,
Libraries:	React, OpenCV, Vite, TailwindCSS
Microprocessor Board:	TM4C123 Tiva Launchpad, Raspberry Pi
Soft Skills:	Communication, Teamwork, Creativity, Curiosity, Patience