

# Aaron Gee

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## 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

## Project Experience

### Fire Detection Drone

Oct 2023 - Mar 2024

- Prototyped low-cost semi-autonomous aerial drone with fire detection capabilities
- Developed the drone's fire detecting program using **Python** and **OpenCV**
- Combined **traditional image processing techniques** and **thermal imagery** to accurately identify the presence of fires with low latency and reduced power consumption
- **Communicated software-oriented ideas** and **delegated equal project responsibilities** with teammates for efficient prototype development

### Ride Organizing Application

Apr - Aug 2024

- Created a web-based ride organizing application
- Frontend used **HTML**, **CSS**, **Javascript**, & **React**
- Backend used **NodeJS**, with **Auth0** for user authentication, and **MongoDB** to save events, rides, drivers, and passengers

### Raspberry Pi HVAC Simulator

Jan - Mar 2024

- Designed a "HVAC simulator" using a **Raspberry Pi 5** and various **external sensors**
- Collected **temperature**, **humidity**, and **motion** data about the immediate environment
- Processed sensor inputs to display relevant information on **LEDs** and an **LCD**

### Personal Portfolio Website

Jan - Mar 2025

- Developed a frontend website using **React** and **Tailwind**
- 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*

## Relevant Courses

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