

Aaron Gee

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aaron-gees-digital-portfolio.onrender.com

Experience

Software Engineer I

Capital Group

Sep 2025 ~

- Developed cloud-native applications with **AWS**
- Automated report generation using APIs

Skills

Computer Languages:

Python, C++, Java, C, Assembly, JavaScript, TypeScript, HTML, CSS, Verilog

Tools/Frameworks/

Eclipse, VIM, PyCharm, IntelliJ, Visual Studio, Notepad++, Vivado, GitHub,

Libraries:

React, OpenCV, Vite, TailwindCSS, SheetJS

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

(ridesprojectfrontend.onrender.com)

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

Group Organizing Application

(groupu-org.vercel.app)

Mar ~ Jun 2025

- Created a configurable group organizing application using **TypeScript**-based **NextJS**
- Use forms to create assignable items, then organize them into groups manually or automatically (based on configured attributes)
- Load/save assignable data between spreadsheet-style files & **Google Sheets** using **SheetJS**
- **Responsive layout styling** for mobile and desktop users

Education

Computer Science and Engineering, B.S.

University of California, Irvine

Oct 2020 ~ June 2024

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