Douglas Yu

(415) 741-6037 | yudouglasyu@gmail.com | linkedin.com/in/douglasmyu | github.com/Douglasmyu | www.dougywougy.com

Education

California State University, Fullerton — Fullerton, CA
Bachelor of Science in Computer Science — May 2025
Relevant Coursework: Data Structures, Algorithm Engineering, Software Engineering, Cloud Computing, Object-Oriented Programming, Databases

Experience

Software Engineer — Revature Internship — Apr 2025 – Jul 2025
Remote

- Built RESTful backend APIs supporting user registration, authentication, and full CRUD operations for posts and accounts.
- Designed a scalable 3-layer architecture (Controller, Service, DAO) using Spring Boot and Spring Data JPA.
- Implemented validation, SQL constraints, and standardized HTTP status handling to ensure data integrity.
- Developed secure authentication workflows and role-based access controls.
- Debugged defects by analyzing stack traces, API responses, and service-layer logic.

Software Engineer — Orbital Labs — Nov 2023 – May 2024
California State University, Fullerton

- Developed a Python-based remote command system enabling manual operation of vehicle components through an onboard avionics controller (OAC).
- Implemented real-time control logic to configure load-driver duty cycles for precise output control.

Coding Coach — The Coder School — Feb 2025 – Present
San Francisco, CA

- Mentored students ages 8–18 in Python and JavaScript fundamentals, data structures, and debugging techniques.
- Reviewed student code and guided corrective improvements to reinforce clean coding practices.

Projects

PageFlow — React, Firebase, PostgreSQL — Dec 2025 – Present

- Built a full-stack reading tracker allowing users to log progress and visualize pages read over time.
- Implemented password-less authentication and secure session management using Firebase.

HandyVision — Python, Flask, OpenCV, MediaPipe — Jun 2025

- Developed a computer-vision web app that tracks hand landmarks in real time using MediaPipe.
- Mapped detected hand landmarks to predefined gesture outputs for interactive recognition.

SymptoQuest — Svelte, Firebase, OpenAI API, Vercel — Feb 2024 – Aug 2024

- Built an AI-powered symptom-checker chatbot that generates working diagnoses from user input.
- Implemented Firebase backend persistence and secure POST-based OpenAI API integration.
- Deployed production application on Vercel with environment-based secret management.

Technical Skills

Languages: JavaScript, Python, Java, C++, SQL, HTML/CSS, Swift
Frameworks: Spring Boot, Spring Data JPA, Node.js, Express, React, Flask, Firebase, OpenCV
Databases: PostgreSQL, MySQL, MongoDB
Tools: Git, Docker, Postman, Linux, Vercel