

Douglas Yu

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EDUCATION

California State University, Fullerton

B.S. Computer Science

Fullerton, CA

May 2025

EXPERIENCE

Software Engineer Intern — Revature

Remote

April 2025 - July 2025

- Engineered RESTful APIs with Spring Boot and Javalin, delivering user authentication, login, and CRUD functionality for a production-style social media blog platform, by implementing a 3-layer architecture with validation and error handling.
- Managed persistent data storage with JDBC and Spring Data JPA, ensuring schema integrity and accurate retrieval across all user and message records, by designing SQL schema constraints, handling HTTP responses, and integrating validation logic

Coding Coach — The Coder School

Yorba Linda, CA

Feb 2025 - Present

- Mentored 10+ students in Python, JavaScript, and Scratch, amplifying their algorithmic thinking and debugging abilities by delivering weekly hands-on coding sessions and personalized feedback

Software Engineer — Orbital Labs

California State University, Fullerton, CA

Oct 2023 – Aug 2024

- Improved emergency response functionality by developing Python-based automation tools for the Orbital Automation Controller(OAC), enabling reliable remote control of autonomous vehicles during system interruptions
- Reduced control latency by 30% in critical edge case scenarios by implementing a real-time manual override system using remote command execution protocols
- Collaborated in Agile sprints with robotics and software teams, contributing to backlogs

Student Research Program

June 2023 – July 2023

California State University, Fullerton, CA

- Analyzed historical stock market trends by processing Yahoo Finance CSV datasets using C++, computing statistical indicators such as mean, standard deviation, variance, and correlation
- Discovered a correlation coefficient of approximately 67% between two equities, indicating a moderately strong linear relationship
- Summarized research findings and presented technical conclusions through formal reports and presentations to faculty and research stakeholders

PROJECTS

RemoteCollab | React, PostgreSQL

Aug 2025 - Present

- Built a full-stack async collaboration tool for distributed teams using React, Express, WebSockets, and OpenAI, enabling voice/text updates, AI-powered summaries, and real-time notifications — deployed to Vercel and Railway with CI/CD integration.

HandyVision | Python, OpenCV, JavaScript | Github Repo

June 2025

- Built a full-stack computer vision app integrating OpenCV with Flask backend to stream real-time webcam feeds to a responsive frontend.
- Applied scalability and observability practices, ensuring smooth frame rendering and server reliability during extended runtime.

SymptoQuest | Svelte, JavaScript, HTML/CSS | SymptoQuest Link

Feb 2024 – Aug 2024

- Designed a dynamic AI-powered diagnosis assistant that parses user symptoms using OpenAI, improving accessibility to healthcare information.
- Embedded Google Maps API to allow users to locate nearby hospitals, increasing real-world usability

TECHNICAL SKILLS

Languages: JavaScript, Python, C++, C#, Swift, SQL, HTML/CSS, PHP, Java

Frameworks: React, Node.js, Svelte, Flask, Express, FastAPI, RESTAPI, OpenCV

Databases: MongoDB, MySQL, PostgreSQL

Tools: Git, Postman, VS Code, Xcode, Docker, Wireshark, Jupyter Notebook, Ubuntu

Libraries/APIs: Pandas, NumPy, OpenAI API, Google Maps API