

# Douglas Yu

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## EDUCATION

**California State University, Fullerton**

*B.S. Computer Science*

Fullerton, CA

*May 2025*

## EXPERIENCE

**OrbitalLabs @CSUF**

Oct 2023 – Aug 2024

*California State University, Fullerton*

- Issue remote commands to OAC so that user can operate a vehicle when needed using python so user can manually operate the vehicle when needed

**CIC-PCUBED-Cal State Fullerton**

June 2023 – July 2023

*California State University, Fullerton*

- Extracted stock data from Yahoo Finance and developed a C++ program to establish a formulation period for pairs trading
- Identified potential stock pairs for trading based on cointegration scores, providing actionable insights for trading strategies
- Contributed to research reports and presentations, communicating findings and insights to both technical and non-technical audiences

## PROJECTS

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

Feb 2024 – Aug 2024

- Designed and deployed an online web application to deliver accurate medical diagnoses based on user input symptoms by leveraging the OpenAI API for natural language processing and symptom analysis
- Integrated Google Maps API to help users to find nearby hospitals based on their location, enhancing the app's usability and relevance for users in need of medical assistance
- Implemented Firebase for authentication and real-time chat storage, ensuring the ability to save and revisit medical consultations, with a responsive front-end built using Svelte

**Readit** | *HTML/CSS, PHP, JavaScript*

March 2023 – May 2023

- Developed and managed the front-end and back-end of Readit, a discussion forum for CSUF students to post and answer questions on courses and academics, leading to increased student engagement and improved academic performance
- Implemented Scrum methodologies to manage project timelines, tasks, and team collaboration, ensuring the successful delivery of the project on time

## TECHNICAL SKILLS

**Languages:** C++, C-Sharp, Python, HTML/CSS, PHP, JavaScript, Svelte, SQL, Swift, SQL

**Frameworks:** React, Node.js, Flask, JUnit, WordPress, Material-UI, FastAPI, MySQL

**Developer Tools:** Git, Postman, VS Code, Visual Studio, xCode

**Libraries:** pandas, NumPy

## ACCOMPLISHMENTS

**Eagle Scout rank**