

Josue Castellanos

[LinkedIn](#) | [GitHub](#) | [Portfolio](#) | josue.benjamin.castellanos@gmail.com | (925) 695-5977 | Concord, CA

EXPERIENCE

Lawrence Berkeley National Laboratory

Berkeley, CA

Software Engineer Intern

June 2024 - September 2024

- Created a Python UI using PyQt5 that integrates the APIs and SDKs of various motors, sensors, cameras, stages, and microscopes into a single interface. Instead of relying on separate native software programs for each instrument, which required controlling each one individually, this integration streamlined the scanning process and controls of all instruments into one unified UI.
- Created Python scanning modules to conduct scans on 7 high-precision metrology instruments that reduced the average scanning time by 20% compared to the native scanning software time by leveraging the UI I developed.

PROJECTS

Stock Options Trading Bot Website

Concord, CA

Website: <http://trading.josuecastellanos.com/> (Django)(HTML)(CSS)

October 2024 - Present

- Developed a Django website an API to render data from my Stock Options Trading Bot, deployed using AWS EC2 instance, Nginx, and Gunicorn on an Ubuntu server, routed to a Hostinger subdomain.

Social Media API

Concord, CA

Website: <https://fastapi-trading-system.com/docs> (FastAPI)

September 2024 – October 2024

- Developed a secure social media API utilizing FastAPI, deployed on Heroku, supporting user authentication, post creation, and a voting system.
- Created RESTful API endpoints for user registration, authentication, and JWT token generation.
- Implemented CRUD operations for posts, users, and votes using SQLAlchemy, ensuring efficient data management with a MySQL database.
- Integrated OAuth2 with JWT authentication for token-based user sessions, improving the app's security to certain features and login efficiency.

Stock Options Trading Bot

Concord, CA

GitHub Link: [Automated Trading System](#) (Python)

January 2024 - Present

- Developed an unofficial API wrapper to access the Charles Schwab API and a Stock Options Trading Bot.
- Automated the management of Access and Refresh API Tokens from Charles Schwab and Google.
- Implemented a Gmail API integration to continuously monitor and process unread emails containing Buy/Sell signals.
- Implemented a Google Sheet API integration to update and load trading accounts data in real-time that follows a risk management plan/trading journal.
- Deployed using AWS EC2 instance, running continuously on an Ubuntu server.

Portfolio Website

Hayward, CA

Website: <https://www.josuecastellanos.com/> (HTML)(CSS)(JavaScript)

January 2024 – May 2024

- Website development project for my Senior year of college, Deployed on Hostinger.

EDUCATION

California State University, East Bay

Hayward, CA

B.S. in Computer Science (GPA: 3.46)

May 2024

- **Awards:** Dean's Honors List Fall 2021, Dean's Honors List Fall 2023, Dean's Honors List Spring 2024

SKILLS

Programming: Python, Java, SQL, HTML, CSS, JavaScript, ThinkScript

Backend: Django, FastAPI, Pydantics, SQLAlchemy, OAuth2, Postman, AWS, Nginx, Gunicorn, Ubuntu

Skills: Object-Oriented Programming, Objects & Design, Data Structures, Algorithms, Pandas, Numpy, PyQt5