

# Josue Castellanos

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## SUMMARY

Recent computer science graduate with a strong foundation in Python frameworks, relational databases, and full-stack development. Passionate about building scalable applications and eager to contribute as a Software Engineer, Full-Stack Developer, Data Analyst, Data Engineer, or Data Scientist.

## EDUCATION

### California State University, East Bay

B.S. Computer Science

- Achievements: GPA: 3.5, Dean's Honors List

Hayward, CA

May 2024

## EXPERIENCE

### Outlier AI

Prompt Engineer (Contractor)

Remote

Jan 2025 - Present

- Evaluated AI-generated responses in Python using a Side-by-Side (SxS) scoring system, enhancing model accuracy by ranking based on key criteria's.

### Lawrence Berkeley National Laboratory

Software Engineer Intern

Berkeley, CA

Fall 2024

- Developed a Python GUI using PyQt5 to integrate APIs and SDKs of motors, sensors, cameras, stages, and microscopes into a single interface, streamlining the scanning process and enabling unified control of all instruments.
- Wrote 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.
- Cleaned and processed data pertaining to HDF5 and CSV formats from conducted laboratory scans.
- Collaborated with internal teams, including QA Engineers and Senior Scientists to develop and launch an internal tool meeting 100% of project requirements on time.

## PROJECTS

### AlgoChart Website

- Developed a website to showcase a proprietary Automated Trading System powered by my Charles Schwab API wrapper, with plans to launch it as a subscription-based Software as a Service start-up, offering proprietary algorithmic indicators, stock scanners, charting tools, and real-time buy/sell orders.
- Deploying a full-stack application on AWS using Django, React, and PostgreSQL.
- Configured NGINX as a reverse proxy to route traffic from a subdomain to the Gunicorn server.

### Charles Schwab API Wrapper

- Designed an API wrapper to streamline access to all Charles Schwab Consumer API endpoints and Streaming service by following official documentation, improving developer accessibility and accelerating trade execution time compared to manual phone or PC trading. ([View Project](#))
- Automated the management of Access and Refresh Tokens for the Charles Schwab API using Daemon, ensuring continuous and secure API connectivity.
- Stream real-time 1-minute stock market candlestick data using WebSockets and aggregated it into various timeframes.

### Social Media API

- Developed a secure social media API utilizing FastAPI, deployed on Heroku, supporting user authentication, post creation, a voting system, and OAuth2 with JWT authentication for token-based user sessions. ([Live Demo](#))
- 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.

## SKILLS

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

**Tech:** Django, FastAPI, Google Cloud, AWS, OAuth2, JWT, PostgreSQL, MySQL, Nginx, Gunicorn, Postman, Numpy, Pandas, Matplotlib, JupyterNB, VS Code, Docker, Git, Pydantic, SQLAlchemy