

CHARLES PLANTEMOLI

Software Engineer, AI / ML

Los Angeles, California | charlesplantemoli@gmail.com | [LinkedIn](#) | [GitHub](#)

SUMMARY

Software engineer with a Computer Science M.S. focused on backend and ML systems. Built a real-time fraud detection model and a text-to-SQL RAG pipeline and worked as an early hire at a B2B SaaS startup. Ships projects quickly with agentic coding tools like Claude Code and Codex.

AREAS OF EXPERTISE

- | | | | |
|----------|------------------------|--------------|----------------|
| • Python | • JavaScript / Next.js | • SQL | • REST APIs |
| • Pandas | • scikit-learn | • LLMs / RAG | • Hugging Face |

PROFESSIONAL EXPERIENCE

Software Engineer, Lookie

Jul 2025 to Dec 2025

B2B SaaS startup for billboard advertising; built a Next.js website that standardizes language in advertiser RFPs

- Joined as an early technical hire with no existing engineering processes or documentation
- Traced misaligned outputs in the RFP translator to unconventional write logic in its translation layer
- Documented the bug and briefed an external dev team on the codebase to implement the fix

Data Intern, Sharp Focus

Jun 2024 to May 2025

AI startup building risk models for aviation, rail, and maritime transportation

- Compiled historical NASA aviation incident records into structured datasets for model training

Project Manager, Crimson Consulting Group

Sep 2024 to May 2025

LMU's student-run consulting firm serving outside clients

- Built a scraper that collected happy hour deals for a client from restaurant websites and the Yelp Fusion API
- Selected the project's data sources and split technical work across the team

ML Engineer Intern, SpotFund

Jun 2023 to Aug 2023

Crowdfunding platform startup

- Built a logistic regression model in Python to flag fraudulent transactions in real time, reaching 90% accuracy
- Automated the team's manual after-hours transaction review; model was deployed on the live site

PROJECTS

Amazon Product RAG Chatbot | Python, Flask, Next.js, SQLite, OpenAI API | [GitHub Link](#)

- Co-built a RAG chatbot that answers plain-English questions about ~55K Amazon products
- Converts queries to SQL, runs them on the dataset, and feeds results to an LLM for grounded answers

Gruuper | React, Firebase, Material UI | [GitHub Link](#)

- Built a web app with a team of 3 for professors to organize classes into groups, adopted beyond the original course
- Students join with a class code, professors see them in real time and drag and drop them into groups

Local Events App | Python, Claude Code, FastAPI, React, Vite | [GitHub Link](#)

- Built a full-stack app that surfaces local events from the JamBase API, grouped by time
- Scaffolded with Claude Code; designed server-side geocoding and a mock-data mode

RLinear Search | Python, Codex, Gymnasium, Tkinter | [GitHub Link](#)

- Recreated a search-and-rescue paper with a Q-learning agent that finds a moving target on an infinite line
- Built the environment and visualizer with Codex, validating results against the paper

EDUCATION

Loyola Marymount University

Aug 2020 to May 2025

B.S. and M.S. in Computer Science