

Samuel Shulman

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SUMMARY

AI-focused new graduate building production LLM systems with LangChain, Gemini, and OpenAI APIs. Currently developing two GenAI applications: a market validation platform with multi-model orchestration and a resume optimizer with LLM-powered document parsing. Strong Python and TypeScript fundamentals with hands-on experience shipping full-stack AI features.

EDUCATION

Yeshiva University | B.S. Computer Science, Distributed Systems Track | *May 2025*

Relevant Coursework: Distributed Systems, Parallel Programming, Algorithms, Operating Systems

SKILLS

AI & LLMs: LangChain, Gemini API, OpenAI API, xAI/Grok API, Claude Code, Cursor, Prompt Engineering

Languages: Python, TypeScript, JavaScript, SQL

Frontend & Backend: React, Next.js, Vite, FastAPI, Django, Node.js, Celery

Data & Infra: PostgreSQL, Redis, Supabase, AWS (Step Functions, SES, Lambda), Docker, GitHub Actions

PROJECTS

MarketLinter | AI Market Validation Platform

- Building a GenAI application that helps indie developers validate startup ideas by gathering demand signals from social platforms using multi-model LLM orchestration.
- Architected parallel async pipelines integrating Gemini for query generation, xAI Grok for X/Twitter search, and OpenAI for Reddit discovery with structured output synthesis.
- Implemented tiered async processing with Celery and Redis, returning immediate task IDs for premium users with polling endpoints.

Stack: Next.js, FastAPI, PostgreSQL, Supabase, Redis, Celery, Gemini API, xAI Grok, OpenAI API

ResumeForge | AI Resume Optimizer

- Developing an LLM-powered tool that parses resumes and LinkedIn profiles into a structured context bank, then generates ATS-optimized resumes tailored to specific job postings.
- Built document parsing pipeline using LangChain with Gemini for structured extraction from varied PDF formats via PyMuPDF.
- Implemented prompt-driven optimization engine that analyzes job requirements and reframes experience with keyword matching.

Stack: FastAPI, LangChain, Gemini API, PyMuPDF, Supabase, python-docx, ReportLab

ImIn | Automated Course Registration System

- Built a system that automated class enrollment in under one second when slots opened; achieved 2,256 page views serving 50% of the student body.

EXPERIENCE

Enterprise Architect | Healthfirst, New York, NY | *Sep 2025 – Present*

- Spearhead architectural design for critical interoperability projects ensuring federal compliance and scalability.
- Engineered event-driven serverless pipeline using AWS Step Functions for provider data retrieval, boosting performance by 80%.

Part-Time Full Stack Developer | AppHammer, Remote | *Jan 2025 – Aug 2025*

- Developed backend APIs using Django and Wagtail; implemented async email notifications with AWS SES and Django Tasks.
- Built admin dashboards with React, TypeScript, and Refine for user management and permissions.