

Vlad Pisotski

Software Engineer

San Francisco, CA • [LinkedIn](#) • [GitHub](#)

SUMMARY

Full-stack engineer building AI-driven web applications and LLM-powered interfaces. Experienced in RAG chat systems, real-time streaming UIs, and evaluation dashboards that bridge front-end design with intelligent back-end logic. Focused on writing performant, maintainable, production-ready code and shipping systems that hold up under real-world use.

KEY SKILLS

Data Tools/Back-End: Redis, Node.js, Express, PostgreSQL, MongoDB, Firebase, Python, Matplotlib. AWS, Firebase

AI Orchestration: Openai, Anthropic, Langchain, Langfuse, Unstructured

Front-End: TypeScript, JavaScript, Next.js, React, React Router, Framer Motion, Tailwind, MUI, Jest, Vitest, Git, HTML, CSS

WORK EXPERIENCE

Code the Dream, Full-Stack Developer

11/2024 - Current

- Collaborated in an Agile team of 8 to architect an AI-powered chatbot using Retrieval-Augmented Generation (RAG), delivering efficient benefits assistance for complex social programs

Front-End Development:

- Engineered high-performance chat interfaces using Next.js Server Components, cutting client-side bundles and slashing load times by 30% via server-side data fetching and streaming
- Standardized evaluation pipelines and tabular UIs, increasing actionable visibility by 40% and enabling rapid human-in-the-loop validation of AI outputs

Back-End Development, Database Management, AI Engineering:

- Built a full-stack evaluation infrastructure leveraging the LLM-as-a-Judge paradigm, combining automated multi-metric scoring with human validation workflows (like/dislike + contextual feedback)
- Integrated Langfuse observability to visualize production responses via structured Scores and Sessions
- Designed a modular MongoDB Filestore architecture supporting multiple vector store configurations, enabling controlled chunking strategy experiments and improving retrieval precision by 60% across production programs

SELECTED TECHNICAL PROJECTS

Hackathon Project: Chef Jul, Full-Stack Developer | [GitHub](#)

- Won 2nd Place (MetLife Hackathon 2025) as Team Lead, spearheading the architecture and deployment of an AI meal-planning assistant from concept to a production-ready Firebase backend in <48 hours
- Solved high-latency bottlenecks by architecting a parallelized generation pipeline, reducing total processing time by 40% to sub-55s execution under constrained hardware
- Orchestrated a multi-agent "Split-Brain" workflow that decoupled heavy recipe generation from rapid contextual tweaks, enabling near-instant (~2s) user preference adjustments via shared state synchronization
- Enhanced UX transparency by implementing structured loading states and real-time progress visualization, maintaining user engagement during asynchronous, multi-step LLM orchestrations

Personal Project: VanLife, Full-Stack Developer | [GitHub](#)

- Engineered a scalable Node.js/Express API featuring centralized error-handling and data validation schemas to ensure high availability and system integrity
- Architected a secure authentication layer using JWT-based middleware, implementing granular route protection and secure session management for sensitive user data
- Optimized client-side performance by leveraging React Router's Actions/Loaders pattern, shifting data fetching to the transition phase to eliminate "loading spinners" and deliver a seamless, state-driven UI

Personal Project: AVAX, Full-Stack Developer | [GitHub](#)

- Integrated AWS S3 and MongoDB via Mongoose schemas, handling large-scale datasets of over 100 million records and reducing response times from 4 s to 130 ms
- Enhanced system scalability and reliability by implementing Redis caching, Dockerizing the server, and diagnosing bottlenecks with Loader.io, Artillery.io, and New Relic, achieving a 56% performance improvement

EDUCATION

React, Node.js, Python and Advanced Practicum | Code the Dream Certificate

2024

Software Engineer Immersive Program | Hack Reactor

2018

Bachelor of Arts in International Affairs | Kyiv International University