ISAAC HIRSCH

San Francisco, CA | isaachirsch.com | (415) 572-4853 | linkedin | github

Professional Summary

Resourceful and versatile Full-Stack Software Engineer with a strong foundation in backend development and a growing focus on AI integration. Experienced in building scalable, data-driven web applications with clean architecture and robust APIs. Passionate about crafting systems that are efficient, secure, and designed with the future in mind. Now seeking backend-focused roles where I can contribute to intelligent systems and scalable infrastructure.

Technical Skills

Languages: Python, JavaScript (Node.js, TypeScript), Java, Swift, SQL

Frameworks: React, Next.js, Express, Flask, Django

AI/ML: OpenAI API, Pinecone, Prompt Engineering, LLM RAG pipelines

Databases: PostgreSQL, MongoDB, Firebase, Supabase

DevOps & Tools: Docker, Git, GitHub Actions, Firebase Hosting, Vercel, AWS (basic)

Other: REST APIs, WebSockets, OAuth, Session/Local Storage, Tailwind CSS

Recent Projects

AI-Powered Job Matching Platform (Full-Stack Developer)

- Designed a web-first job matching platform using React and Firebase, later extending to Android/iOS.

- Engineered a backend system for matching employers and job seekers using form data and availability.

- Integrated real-time updates and job tracking using Firebase Cloud Functions and Firestore.

AI Chatbot Knowledge Base (Backend + AI Lead)

- Developed a Python-based RAG chatbot using Pinecone and Google Docs as dynamic content inputs.

- Engineered a backend to support modular knowledge updates, prompt tuning, and context chunking.

- Built a UI for document management and live chatbot testing.

Security Guard Booking App (Swift, Firebase, GPS)

- Created an Uber-style security app with tiered roles for guards and clients.

- Built real-time GPS matching, scheduling logic, and role-based dashboards.

- Integrated modern UI with reusable SwiftUI components and state-driven flows.

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Professional Experience

Freelance Full-Stack Developer (Self-Employed) | 2020-Present

- Delivered tailored software solutions including web apps, mobile apps, and automation tools.

- Focused on backend logic, API design, AI feature integration, and performance optimization.

- Worked with diverse clients across tech, media, and startup industries.

Affiliate Tech Engineer & Data Integration Consultant (Project-Based Roles)

- Worked with platforms like MediaAlpha and FindAffi to extract and integrate affiliate data.

- Built Python scripts to handle scraping, API calls, and CSV data pipelines for revenue tracking.

- Developed dynamic offer pages and optimized user journeys via A/B tests and analytics hooks.

Education

International Business Certificate, Santa Barbara City College

2011

Interests

Artificial Intelligence - Scalable Systems - Behavioral UX - Rugby (Former National Player)