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WORK EXPERIENCE

Currently experimenting

May 2025 – Present

Independent AI Researcher & Consumer App Developer

San Francisco, CA

- Building a **personal app store platform** enabling non-developers to construct, customize, and deploy AI-generated micro-apps through natural language, exploring the future of micro-apps where individuals build highly personalized tools for specific use cases rather than relying on centralized subscription services.
- Developing **data sovereignty infrastructure** using browser extensions and GDPR data archives to help users reclaim control of their social media data, building personal algorithmic bubbles on their content repositories.
- Architecting **grammar-based WebSocket routing system** with flexible, extensible foundation for rapid AI agent deployment and production-ready app generation, reducing development time from ground-zero to functional applications.

[Reqpai](#) (formerly Audition)

Jun 2024 – May 2025

Co-Founder, Product and Engineering Lead

San Francisco, CA

- Built **AI-driven recruiting platform** with **event-driven multi-agent architecture** and **WebSocket-based** interview system, enabling companies to **build custom recruiters** with configurable prompts, rubrics, decision rules and real-time conversation tree evolution.
- Implemented **neural matching engine** using **structured extraction** and multi-parameter scoring to **rank 500+ resumes in <20 seconds**, plus job-description wizard auto-generating interviews, simulations, and scoring rubrics.
- Engineered **voice-first interview experience** with screen sharing, webcam integration, and fraud prevention through separate video storage per Q&A, conducting 1000+ distributed interviews.
- Built **asynchronous processing pipeline** using SQLAlchemy ORM for high-throughput resume analysis and real-time admin dashboard with event timeline visualization.
- Strategically exited after 6 months due to market conditions, transitioning platform to auto-pilot mode with external sales partnership.
 - **Stack:** TypeScript (React); Python (FastAPI, Pydantic); Unix; PostgreSQL, Google Cloud

[Rifflix](#)

Apr 2023 – May 2024

Founding Engineer, Product Lead

Remote

- Architected and built a **text-to-animation platform using Unity game engine** to solve video generation controllability challenges in the early diffusion model era.
- Developed a natural language **transpilation engine** using context-free grammar and function calling for **entity extraction**, converting user scripts into Unity code for **character movement, camera control, and lighting**.
- Built **full-stack infrastructure** including **authentication, database, credit management system**, and **deployment of Unity engine** with interactive capabilities on web platform.
- Implemented AI-powered character and background generation using Stable Diffusion with LoRA fine-tuning, deployed on private RunPod infrastructure with Modal for workload orchestration.
- Engineered audio-video pipeline integrating ElevenLabs for dialogue generation, screen recording with WebRTC, and FFmpeg-based post-processing for social media export.
- Designed publisher-subscriber queue architecture for non-blocking video processing, enabling users to generate, record, and download complete animated stories with synchronized audio.
 - **Stack:** TypeScript (React); Python (FastAPI, Pydantic); MongoDB, Unix, ffmpeg, Docker, GCP

Sidebrain

Founder & Applied AI Engineer

Jan 2021 – Dec 2022

San Francisco, CA → Bengaluru, India

- Founded and built Sidebrain, a conversational AI platform predicated on the thesis that **knowledge retrieval** and **exploration** would be primarily **conversation-driven** (pre-ChatGPT era).
- Architected and deployed a complete **RAG system from scratch**, predating mainstream adoption by 2 years. Implemented **embedding-based semantic search** with **cosine similarity**, **intelligent chunking**, and **context-aware response generation**.
- Built an intelligent **metadata extraction** pipeline using **TF-IDF**, **lemmatization**, and **stemming** algorithms, eliminating manual tagging while maintaining data integrity through rule-based **semantic merging**.
- Developed **knowledge graph system** using NLP techniques (tokenization, dependency parsing) with Neo4j for efficient semantic triples extraction and relationship mapping.
- Shipped Chrome extension and iOS app with voice/text interfaces for capturing and retrieving context-rich information with structured metadata preservation.
- Self-taught Python, spaCy, and NLP fundamentals through intensive 3-month program, applying knowledge directly to production systems.

Aura (Series D, \$580M raised)

2019 – 2021

Senior Product Manager (Acting Director of Product)

San Francisco, CA

- Led consumer products and backend for Aura, a **fintech focused on providing credit to unbanked**
- Built and deployed **pre-AI OCR + human workflows for document verification**—partnered with ops to automate data labeling, parsing, and fraud checks, cutting processing time and boosting conversion.
- **Expanded** product from single-use lending to a **consumer platform**—launched credit score updates, offers, and rewards to drive engagement.
- Retained as core technical staff through 80% layoffs; **led CARES Act project to deliver emergency funds to thin-file SMBs**.

Zendrive (Acquired by CreditKarma; \$88M raised)

2017 – 2019

Product Manager

San Francisco, CA

- Led **consumer experience** for an auto **insurtech focused on pricing insurance based on driver behaviour**
- Launched new iOS/Android apps and dashboards, driving adoption across customer verticals at a leading driver-analytics insurtech startup.
- Led development of an insurance backend integrating sensor, behavioral, and crime data to price insurance dynamically.
- Built and deployed a collision detection system trained on 150B+ miles of driving data.

EDUCATION

Yale University

August, 2017

MBA - Tech, Entrepreneurship, Philosophy

New Haven, CT

- Interned at Apple, contributed to the launch of Apple Single Sign on and iOS App Store redesign.
- Built and launched a healthtech product on the ground in Sierra Leone to improve malaria drug adherence rates. Converted text messages from a feature phone to a medication plan. JSON Parsing before it was cool.

Birla Institute of Technology

July, 2011

Bachelor of Engineering, Computer Science

Mesra, India

- Learned data structures, algorithms, C++ and Assembly.

CERTIFICATIONS, SKILLS & INTERESTS

- **Technologies:** Python, TypeScript, React, Unity, Docker, Neo4j, Stable Diffusion, WebRTC, FFmpeg, ElevenLabs, OpenAI, WebSocket, SQL, NLP, RAG, AI/ML, GCP
- **Skills:** Product Management, UI/UX Design, AI Engineering, Full-Stack Development, System Architecture, Entrepreneurship, Strategic Planning
- **Interests:** Writing, Philosophy, Physics, Biology, Meditation, Cooking, Anime and hill climbing