

Experience

Fleuxlabs.ai

Founder

San Diego, CA
08/2022 - Present

LLM Platform

- Live **NextJS** LLM platform averaging over **900,000 tokens** a day, featuring state-of-the-art multi-LLM chat integration with **GPT-4/VO**, **Anthropic**, and **Perplexity**.
- Platform uses **Pinecone**, a **vectorized** database and **Cohere** embeddings to ensure seamless **context sharing** within the same chat.
- Includes **5 attachments** per message and TTS backed by Eleven labs.
- Actively working on Puppeteer based Dockerized **agentic control systems** with multi-llm access running on proxies in a controlled access space.

Walmart Global Tech

Software Development Engineer II

Vancouver, BC
06/2021 - 08/2022

Release Engineering

- Dockerized WalmartUS iOS and Android mobile **release pipeline**, collaborating with NX founder, Victor Savkin to create a custom monorepo.
- Implemented dependency caching and dependency graphs, reducing average **build times by 47%**.
- Subsequent builds after initial failure were **78% faster**, down to **12 minutes from 54 minutes**, enhancing developer commit velocity.

@WalmartLabs

Software Development Engineer In Test

Sunnyvale, CA
06/2019 - 05/2021

Automation Frameworks

- Developed a ReactJS tool that **automated the entire order lifecycle** using mock APIs, enabling same-day testing and deployment across US, UK, and India.
- Eliminated production hot-fixes, significantly reducing risk and improving software quality.
- **Saved 200+ hours** of US resources and facilitated the US testing department's transition to India due to the tool's reliability and minimal maintenance requirements.

Projects

Speaker Recognition

San Diego State University
08/2023

Natural Language Processing

- Identify speakers from King Corpus using **20ms frames**.
- Utilized **GRUs** to handle sequential data.
- Employed **Long Short-Term Memory** networks to better retain and utilize long-term dependencies.
- Implemented batch normalization, dropout layers, and L2 regularization to mitigate overfitting.

Verte

San Diego State University
11/2023

Mistral-7B Fine-tuning

- Enhanced Mistral-7B for spine-related queries using Quantized Low-Rank Adaptation.
- Leveraged OpenAI Whisper for transcription and GPT-4 Turbo for generating diverse Q&A pairs.
- Achieved at least **50% improvement** in accuracy and efficiency for spine-related medical query responses.

Stratas

San Diego, CA
01/2023 - 01/2024

Computer Vision

- Built a React Native app integrating 2 speed sensor readings & Bluetooth device connectivity.
- Developed a Raspberry Pi prototype with **OpenCV** libraries and a 4K camera for ride monitoring.
- Made a **data-driven decision** to halt further development due to scaling challenges and universal chip shortages.

Skills

PyTorch • Jupyter • Python • OpenAI-SDK • Anthropic-SDK • Puppeteer • AWS • Typescript • Vercel • NextJS • ReactJS • Java • Pinecone DB • Docker • TailwindCSS • Jenkins • HuggingFace • Tensor flow • Redis • Lang-chain.

Education

San Diego State University

MS Computer Science

San Diego, CA
08/2022 - 05/2024

San Diego State University

BS Computer Science

San Diego, CA
08/2014 - 08/2018