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Summary

In 2023 I made a transition from traditional software development to Artificial Intelligence, including extensive use of LLMs and AI-assisted coding. I now code exclusively by pair programming with GitHub Copilot, using Claude Sonnet. My background is unusual in that I began in UI/UX, so I am able to create, manage and ensure the quality of all aspects of projects, not just the core programming.

Work History

Planet A Technology - Senior Software Engineer - *Remote*

January 2024-present

Building LLM applications using RAG, LangChain, OpenAI, Anthropic, Hugging Face, Python, Node.js and related technologies. Prompt engineering, consulting in prompt engineering.

Sustainable Choices - CTO / Founder - *Remote*

January 2023-January 2024

Sustainable Choices answers the need for a swift and convenient way of discovering all the details of sustainable choices, through a unique UI that allows users to view only those choices that apply to the user's particular circumstances, abilities and interests. A Large Language Model is used to generate the primary content.

- Hired and managed a small team of engineers and content specialists.
- Mentored junior and mid-level developers.
- Designed the database schema and wrote all SQL code for the MySQL database.
- Coded the entire backend API in Node.js and Express.
- Designed and coded the specialized user interface for displaying specific choices that match the user's goals and circumstances.
- Responsible for all use of AWS services: IAM, S3, EBS, API Gateway, Lambda.

Large Language Model, AWS, Lambda, React, TypeScript, Node.js, Express, Python, DB design, MySQL, Git, CI/CD pipeline on AWS

TRAM Global - Senior Software Engineer - *Boston/Remote*

May 2022-January 2023

TRAM Global is a mobile app based on machine learning and crypto applied to transportation choices to reduce CO2 emissions. Users are rewarded with crypto and given public recognition for reducing their carbon footprint.

- Hired the primary development team, and mentored other developers.

- Designed and coded the APIs for a cluster of services on the mobile app.
- Contributed to the coding in blockchain for the crypto aspects of the app.

GCP, Docker, Kubernetes, Go, TypeScript, Python, React, React Native, APIs, GraphQL, RabbitMQ, Apache Kafka, Git

Quote Machine - CTO / Founder - *San Francisco*

January 2019-April 2022

Quote Machine is a SaaS business offering a quote database of extraordinarily high quality that can be turned into collections of quotes that can then be shared as standalone files that play as movies. The system also includes an API such that different "quote movie channels" can be fed into web sites, elevator displays, conference site monitors, or even into hotel rooms all over the world. The goal of Quote Machine is to fill the world with brilliant ideas.

- Designed the database schema and wrote all SQL code for the entire project.
- Designed and coded the entire API.
- Coded all of the React components that communicate with the database.

UI/UX design, TypeScript, Node.js, React, Python, PostgreSQL, APIs, OAuth, Git

Zivot - CTO / Founder - *San Francisco*

January 2016-January 2019

Zivot is a transcendent "time management" system that shows you whether you are using your time wisely: proportions of your time spent on important vs. unimportant activities, proactive vs. maintenance activities, visionary and transformative activities.

- Designed the database schema and wrote all the SQL code for the project.
- Wrote the code for all the primary user features as well as the admin features.
- Wrote all the shell scripts for automated monitoring and database backups.

PHP, database design, MySQL, APIs, JavaScript, CSS, shell scripting, data visualization

UI/UX Design - Freelance - *San Francisco Bay Area*

January 2012-January 2016

For four years I did nothing but UI/UX work, not just making websites look good, but doing user research and user testing, and matching the navigation and paths of use of websites to the internal mental models of users.

User research, wireframes, mockups and prototypes, user testing, information architecture, navigation design, design

Certifications

Algorithms - AlgoExpert

FrontEnd - AlgoExpert

System Design - AlgoExpert

Infrastructure - AlgoExpert

Blockchain - AlgoExpert

Data Science - LinkedIn Learning
Data Visualization - LinkedIn Learning
Artificial Intelligence - IBM
Machine Learning - AlgoExpert
Machine Learning in Production - Deep Learning AI
Generative AI with Large Language Models - Deep Learning AI

Skill List

HTML & CSS: 10 yrs JavaScript: 10 yrs TypeScript: 5 yrs Node.js: 5 yrs Python: 5 yrs React: 5 yrs AWS: 5 yrs APIs - REST: 8 yrs	APIs - GraphQL: 2 yrs SQL - MySQL, PostgreSQL: 8 yrs NoSQL - MongoDB & others: 5 yrs Git / GitHub: 5 years Docker: 2 yrs Kubernetes: 2 yrs Shell scripting: 10 yrs AI/ML/LLM: 2 yrs
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Coursework in AI/ML/LLMs

IBM - Fundamentals of Artificial Intelligence
Deep Learning AI - Machine Learning in Production
Deep Learning AI - Generative AI with Large Language Models
LinkedIn Learning - Prompt Engineering with LangChain
Deep Learning AI - Function Calling and Data Extraction with LLMs
Deep Learning AI - Building Your Own Database Agent
Deep Learning AI - Open Source Models with Hugging Face
Carbon Aware Computing for Gen AI Developers

Education

B.A. in Film, U.C. Berkeley