Taylor Stubbs

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Education

Texas Tech University   2012-2015
Completed coursework in Computer Science before co-founding startup.

Summary

Experienced Senior Full Stack Software Engineer specializing in Applied AI and LLMs, looking to leverage skills in a forward-thinking company at the forefront of technological innovation.

Experience

Senior Software Engineer, Activeloop – Boston, MA   Nov 2023 – Present
- Led Research and Development Team designing and building Applied AI systems using **Microsoft AutoGen**, **DSPy**, and **OpenAI LLM and Embedding** models to solve enterprise customer problems.
- Led Platform Team integrating **Auth0** and **OpenFGA** systems into **FastAPI** backend and **React** frontend.
- Designed and built AI training data collection and self-optimization systems using **OPRO**.
- Built **LangChain RAG** with **Deep Lake** VectorStore facilitating chat interaction between user and data.
- Managed Platform projects with **JIRA** and **Notion** ticket systems reducing feature development time.

Senior Software Engineer, Sonos – Boston, MA   Dec 2020 – Nov 2023
- Led cross department initiative to create a regression AI classifying diagnostics into their resolutions with **PyTorch** and transformer modules. This led to 35% case resolution from first contact information.
- Led cross department team to create a troubleshooting generative AI -(**OpenAI API**, **LangChain**, **DeepLake**, **Flask)** hosted on AWS via **AWS CDK** templates utilizing custom Docker images hosted on ECS.
- Created pipelines for pulling data from Sonos Subreddit using **LangChain**, **BeautifulSoup**, and **Deeplake**.
- Created code comprehension pipelines using **Microsoft Guidance**, **Sentence Transformers**, **DeepLake**, **LangChain**, and **LLaMA** that optimized JIRA ticket development and grooming.
- Created AWS architecture via **AWS CDK** deploying **Flask** servers on ECS to symbolicate Qualcomm files.
- Modernized legacy diagnostic systems with a **React** frontend and **TypeScript** microservices backend hosted on AWS infrastructure created via **AWS CDK** reducing ticket completion time by 79%.

Senior Software Engineer, Mediazact – Boston, MA   Mar 2019 – Dec 2020
- Designed and built a microservice architecture from the ground up using **AWS CDK**
- Engineered **Express** backend to handle complex accounting business logic and integrate with Xero.

Senior Software Engineer, Ronoco – Boston, MA   Oct 2018 – Mar 2019
- Created microservice backend using SpringBoot and MySQL
- Hired and managed a team of developers to focus on rapid **React** prototyping

Software Engineer, Sheprd – Boston, MA   Aug 2017 – Oct 2018
- Modernized legacy codebase by transitioning to a **React** frontend and **Node.js** backend hosted on **AWS**.
- Led team of junior and contract developers, overseeing releases and maintaining code standards.

Software Engineer, J&P Innovations – Lubbock, TX   June 2015 – May 2016
- Developed multi-platform frontend clients for iOS, Android, and mobile-responsive web using **React Native.**

Skills

Languages: Python, TypeScript, Node.js
Technologies: AWS, RAG, LLaMA, React, LLMs, Embedding Models, Vector Stores, AI Agents, JIRA, Notion
Libraries: DSPy, Autogen, Pytorch, FastAPI, Langchain, Deep Lake, Express.js, Material UI, Zustand