Jatin Parab

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Professional Experience

Senior Software Engineer | Codecademy   Nov 2023 – Present
- Focused on developing next-gen learning experiences leveraging generative AI.
- Built a suite AI assisted learning tools aiding learners in understanding complex topics and debugging code. (Behind the scenes, Press Release). This had an average of 84% positive response and an increased retention rate for courses.
- Pioneered the implementation of Agentic design patterns to further enhance the capabilities of AI Assistance
- Built Code Explain: A feature providing beginner-friendly explanations for selected code. This had 86% positive feedback where learners marked it as being helpful.
- Mentored team members & conducted lectures on best practices for implementing LLM based systems.
- Built a vector database using codecademy articles & crowdsourced docs for contextualization of LLMs.
- Developed internal testing grounds for enabling rapid prompt iterations.

Software Engineer | Upraised   Sep 2019 – Oct 2023
- Led the development of multiple core iterations of the Learning Management System (LMS), significantly contributing to the business's monthly revenue.
- Introduced and championed the adoption of LLMs through an innovative evaluation and feedback framework.
- Pioneered a scoring algorithm for subjective tests using GPT3.5 and LangChain, markedly reducing manual review needs.
- Designed and implemented a high-capacity backend infrastructure, supporting over 500k concurrent users.
- Developed multiple web application frontends, and structured database architecture, RESTful APIs, and data processing systems.
- Played an instrumental role in establishing and documenting engineering best practices, principles, and project management processes to enhance team scalability.
- Developed a CLI tool in Golang to automate routine tasks, enhancing engineering productivity.
- Engineered efficient CI/CD pipelines for microservices utilizing Github Actions, Docker, and Kubernetes.
- Delivered lectures on effective collaboration with engineers to Product Management students, achieving an average rating of 4.7 out of 5.

Software Engineer Intern | TIAA   Jun 2019 – Aug 2019
- Built a Proof of Concept of optimizing the database using an In-Memory store, successfully bringing down the average query time by 82%

Languages and Technologies

- Go, Javascript, Python
- Langchain, Vector DBs, Whisper, Django, React, Redux, Node, Express, PostgreSQL, MongoDB, Docker, Kubernetes, AWS

Education

Bachelor of Engineering (Computer Science)
Mumbai University, 2020
GPA: 7.93