Manjesh Prasad

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Professional Experience

Full-Stack Engineer | Kismet XYZ | San Francisco, CA | February 2024 - Present

- Engineered a Python-based real-time monitoring backend microservice queues for the company's proprietary sensor data dashboard, providing real-time metrics and insights to natural gas well operators worldwide.
- Collaborated with the hardware engineers, computer scientists, and executives to gather and implement the product requirements based on oil & gas user insights. Enhanced the company's data reporting capabilities, delivering more precise and actionable insights on pressure, temperature, flow rate, and moisture (H2O) metrics.

Software Engineer | Glocal | Chicago, IL (Remote) | September 2023 - May 2024

- Worked with a cross-functional team to transform the Java-based backend from a monolithic to a microservices architecture. This improved scalability by 40%, enabled smoother deployments, increased tech flexibility, and reduced maintenance overhead by 30%, optimizing embedded system performance.
- Conducted thorough code reviews of Java-based backend applications, identifying security vulnerabilities, optimizing performance, and ensuring adherence to coding standards; leading to a significant reduction in critical issues and enhanced the overall performance of enterprise web applications.

Associate Software Engineer | Infosys Limited | San Francisco, CA | July 2022 - August 2023

- Developed high-speed network protocols using SOAP, GraphQL, and RESTful APIs with Spring-based ORM and OOP techniques for distributed systems. Reduced latency by 15% and improved scalability for core services by integrating SQL and NoSQL databases.
- Automated UI testing using the Page Object Model Architecture, Selenium, Cucumber, Jenkins, exploited Test-Driven Development (TDD) and Behavioral-Driven Development (BDD) methodologies. Resulted in a 30% boost in test coverage and identified 5 defects per sprint iteration during Software Development Lifecycle (SDLC).

Education

Master of Science in Engineering | San Jose State University | San Jose, CA | Expected May 2025

- **Coursework:** Enterprise Software Platform, Systems Engineering, Advanced Data Mining

Bachelor of Science in Computer Science | CSU, East Bay | Hayward, CA | May 2022

- **Coursework:** Operating System, Computer Network, Data Structures and Algorithms, Web Development

Technical Skills

- **Programming Skills:** Python, Java, JavaScript, React, Node, Spring, HTML5/CSS3, Express
- **Database Skills:** MySQL, PostgreSQL, MongoDB, VectorDB, Amazon Web Service (AWS)
- **Additional Skills:** CI/CD, Docker, DevOps, Kubernetes, Pytorch, Pandas, Figma, Apache, LangChain, Haystack

Software Project

Foodie - First AI Integrated Food Review App (MERN, Llama3.1, Hugging Face, LangChain, AWS)

- Collaborated with a cross-functional team to develop an AI-integrated food review web application leveraging public Yelp datasets, LangChain framework, and LLama3.1 to build a Retrieval-Augmented Generation model.
- Designed the first cloud solution architecture, managed the team on AWS, and helped dockerize the LLM to reduce deployment costs from $650 to $16 per day using EC2, optimizing both scalability and cost efficiency.

OpenD - Next-Gen Web 3.0 E-Commerce Solution (React, Motoko, Internet Computer, Blockchain)

- Engineered a decentralized E-Commerce marketplace on the Internet Computer's blockchain, enabling users to mint, list, and sell Non-Fungible Tokens (NFTs). Developed a custom cryptocurrency token (OAT) to facilitate seamless currency transactions within the platform, enhancing security, scalability, and reliability.

DSurv - Modern Cryptocurrency Token Exchange (Motoko, React, Internet Computer, Blockchain)

- Developed a Curve replica enabling seamless real-time exchange of Web 3.0 tokens on the Internet Computer blockchain. Integrated the solution with the OpenD application, facilitating NFT trading and enhancing the platform's token liquidity and efficiency.