Shreyas S Kasetty

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Education

Texas A&M University, College Station, Texas
Master of Computer Science, GPA: 4.0/4.0 — Aug 2023 – May 2025

RV College of Engineering, Bengaluru, India
Bachelor of Engineering in Computer Science, GPA: 3.91/4.0 — Aug 2017 – May 2021

Technical Skills

Java, Python, C++, SQL, MongoDB, **PostgreSQL**, **Redis**, **RabbitMQ** FastAPI, Javascript, **React**, Next.js, Node.js, Flask, **Spring Boot**, Automation scripting & scripting tools, **Kubernetes, Docker, Jenkins**, Maven, LangChain, LangGraph, **Microservice Architecture, Distributed Caching Systems, Monitoring & Alerting Systems**, Prompt Engineering, Architectural Patterns, Kafka, Amazon Web Services (AWS)

Experience

Software Developer — Aug 2023 - Present
TTI — *Bryan, TX*

- Designed and developed a scalable event-driven backend system for pavement analysis using RabbitMQ and Springboot, capable of handling 10,000 concurrent users and reducing server costs by 20%
- Optimized a disaster event search engine using the ELK stack, improving search query performance by 40% and reducing indexing time by 30%
- Spearheaded the transition to containerized and orchestrated environments using Docker and Kubernetes, cutting deployment times by 30%, enhancing resource utilization
- Optimized AWS services by implementing S3 lifecycle policies, reducing storage costs by 5%

Backend Software Engineer — Aug 2021 – July 2023
Cisco Systems — *India*

- Developed a scalable system utilizing distributed microservice architecture for the Cisco Optical Network Planner enabling real-time, BOM calculations across multiple configurations
- Architected and implemented a real-time data processing pipeline for network monitoring using Apache Kafka, enabling the analysis of 1 million events per second and reducing average time on analysis by 90%
- Collaborated with 2 teammates to **migrate a legacy monolithic application to a microservices architecture**, reducing system downtime by 40% and improving scalibility
- Spearheaded the design and rollout of a cloud-native, microservices-based platform leveraging Kubernetes, achieving a 30% faster deployment process and maintaining 99.99% availability for critical CONP services
- Collaborated with test and firmware teams to understand their data visualization needs and improved **network accessibility efficiency by 90%**
- Mentored 3 junior contract developers in best practices for Java development and code optimization, leading to a 15% increase in team productivity and code quality
- Participated in agile development processes, delivering key features ahead of schedule and receiving recognition for outstanding teamwork and quality code contributions.

Software Engineer Intern — Feb 2021 – July 2021
Cisco Systems — *India*

- Designed and developed modular automation frameworks for testing NCS1010 routers using Python and CI/CD pipelines resulting in a **80% increase in optical network testing efficiency**
- Implemented a comprehensive CI/CD pipeline with Jenkins, automating 95% of vendor firmware deployment processes and reducing development-test cycles from weeks to days

Academic Projects

CortexFS - File System Organizer

- Developed CortexFS, an intelligent file organization tool that leverages Large Language Models to summarize file contents and suggest optimal storage locations in the file system
- Tech: ***Python, FastAPI, ElectronJS, LangChain, Llama3.2, OpenAI***

QuickMind - Personal AI Assistant

- Developed and deployed a personal AI assistant leveraging LangGraph to automate email summarization, schedule meetings, query documents, and manage to-do tasks
- Designed and implemented a high-performance streaming API endpoint using FastAPI and LangGraph to enable real-time querying of a dynamic graph of autonomous agents
- Tech: ***Python, FastAPI, Streamlit, LangGraph, LangChain, Llama3.2, OpenAI, RAG***

EleetNavigator - LeetCode Recommendation System

- Implemented a full-stack recommendation system using Flask and React which recommends personalized LeetCode problems, resulting in efficient and organized problem navigation
- Tech: ***Python, Flask, React, MongoDB, BERT***