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

Programming Language: Python, Java, C
Databases: SQL, MongoDB, DynamoDB, Redis
Web Frameworks: REST API, FastAPI, Javascript, React, Next.js, Node.js, Flask, Spring Boot
Tools: Git, Postman, VS Code, Visual Studio
Design Patterns: Model-View-Controller, Singleton, Observer, Dependency Injection
Other: OpenAI, Kafka, Amazon Web Services (AWS), Kubernetes, Docker, Jenkins, Gradle, Information Storage and Retrieval, Data Structures, Prompt Engineering, LangChain, LangGraph

Experience

Student Worker - Software Developer — Apr 2024
Texas A&M Transportation Institute — *Bryan, TX*

- Designed a microservice, handling submission and queuing of 10,000+ job requests per month through a RabbitMQ producer
- Developed and deployed a RabbitMQ worker service on AWS EC2, consuming over 200 long-running image processing jobs weekly, improving the scalability and efficiency of the Pavement Analysis System
- Optimized AWS services by implementing S3 lifecycle policies, reducing storage costs by 5% across web services while maintaining data availability and performance
- Tech: ***Java, Python, Spring Boot, Rabbit MQ, FastAPI, MySQL, EC2, Elastic Beanstalk, Docker***

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

- Developed a scalable microservice for the Cisco Optical Network Planner enabling real-time, BOM calculations across multiple configurations increasing
- Developed a POC for **real-time data ingestion** system for optical network modules which handles 2 gigabytes of data per second, reducing troubleshooting time significantly and enabling real-time issue detection
- Collaborated with test and firmware teams to understand their data visualization needs and improved **network accessibility efficiency by 90%**
- Optimized the scheduling algorithm of optical line systems to decrease network failure detection time, resulting in a **33%** improvement in detection speed
- Tech: ***Java, Spring Boot, Kubernetes, Kafka, Splunk, Proto-buffer***

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

- Designed and developed a modular vendor firmware testing framework using Python and CI/CD pipelines to reduce testing effort resulting in a **80% increase in optical network testing efficiency**

Projects

QuickMind - Personal AI Assistant

- Developed a personal AI assistant chatbot to streamline workflow by automating email summarization and sending, meeting scheduling, document querying, and real-time internet searches
- Optimized prompts to reduce OpenAI token costs by 30% through concise system and human prompts, enhancing output quality while minimizing input length
- Tech: ***Python, FastAPI, Streamlit, LangGraph, LangChain, Llama3.2, OpenAI, RAG***

EleetNavigator - LeetCode Recommendation System

- Implemented a novel full-stack recommendation system using Flask and React to provide personalized LeetCode problem suggestions, resulting in efficient and organized problem navigation
- Tech: ***Python, Flask, React, MongoDB, BERT***