

SHREYAS SHIVAKUMAR KASETTY

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WORK EXPERIENCE

Senior Software Developer, TTI

Aug 2023 - Present

- Designed and developed a scalable event-driven backend system for pavement analysis using RabbitMQ and Spring-boot, capable of handling 10,000 concurrent users
- 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%

Software Developer, Cisco Systems

Aug 2021 - July 2023

- 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%
- Integrated logging (Splunk) and metrics (Prometheus) monitoring systems to uncover severe system faults.
- migrate a legacy monolithic application to a microservices architecture, reducing system downtime by 40% and improving scalability
- Collaborated with test and firmware teams to understand their data visualization needs and improved network accessibility efficiency by 90%

Software Engineer Intern, Cisco Systems Intern

Jan 2021 - June 2021

- 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

SKILLS AND INTERESTS

Backend: Java, Python, Django, FastAPI, Springboot, PostgreSQL, MongoDB, RabbitMQ, Redis

Front End: Javascript, Typescript, Python, React, Next.js

Devops: Docker, Kubernetes, Jenkins

Other: Git, AWS, Docker, Kafka, LangChain, Microservice Architecture, Architectural Patterns, Distributed Caching Systems, Monitoring & Alerting Systems

PROJECTS

LLM Powered File System Organizer, Texas AM University

- 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

Personal AI Agent, Texas AM University

- 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

EDUCATION

Texas AM University, College Station, Texas, New York

Aug 2023 - May 2025

Master of Computer Science

GPA: 4.0/4.0

- Courses: Programming LLMs, Information Storage Retrieval, Machine Learning

R. V. College of Engineering, Bangalore

August 2017 - July 2021

Bachelor of Engineering, Computer Science

GPA: 4.0/4.0