

# SHREYAS SHIVAKUMAR KASETTY

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## WORK EXPERIENCE

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### 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% and server costs by 30%

### 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
- Migrated 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%
- Participated in agile development processes, delivering key features ahead of schedule and receiving recognition for outstanding teamwork and quality code contributions

### Software Engineer Intern, Cisco Systems

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

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**Backend:** Java, Python, Django, FastAPI, Node.js, Springboot, PostgreSQL, MongoDB, RabbitMQ, Redis

**Front End:** Javascript, Typescript, React, Next.js, Streamlit

**Devops:** Docker, Kubernetes, Jenkins

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

## PROJECTS

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### LLM Powered File System Organizer, Texas A & M 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 A & M 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

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### Texas AM University, College Station, Texas

Master of Computer Science

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

Aug 2023 - May 2025

GPA: 4.0/4.0

### R. V. College of Engineering, Bangalore

Bachelor of Engineering, Computer Science

August 2017 - July 2021

GPA: 4.0/4.0