

Shreyas Shivakumar Kasetty

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WORK EXPERIENCE

Software Engineer, Texas A&M Transportation Institute

August 2023 – Present

- Designed and developed a distributed backend system for pavement analysis using RabbitMQ and Spring Boot, capable of handling 5000 concurrent image processing requests
- Optimized a disaster event search engine using ELK(Elasticsearch, Logstash, Kibana) stack, improving search query performance by 40% and reducing indexing time by 30%
- Spearheaded transition to containerized and orchestrated environments using Docker and Kubernetes, cutting deployment times by 30%
- Optimized AWS cloud services by implementing S3 lifecycle policies, reducing storage costs by 5% and server costs by 30%

Software Engineer, Cisco Systems

August 2021 – July 2023

- Owned and implemented a real-time data processing pipeline to monitor NCS1010 routers using Apache Kafka, enabling the analysis of 500,000 events per second and reducing average troubleshooting time by 90%
- Retained critical customers by enabling faster troubleshooting, resulting in \$1M in Annual Recurring Revenue (ARR) retention
- Delivered the solution to production within three weeks, seamlessly transitioning it into a core feature
- Developed a distributed scalable system using microservice architecture for Cisco Optical Network Planner enabling real-time BOM calculations across multiple configurations, which improved planning efficiency
- Migrated a legacy monolithic application to a microservices architecture, decoupling services to enhance scalability and improve system performance

Software Engineer Intern, Cisco Systems

January 2021 – June 2021

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

TECHNICAL SKILLS

Backend: Java, Python, Spring Boot, FastAPI, MySQL, MongoDB, Elasticsearch, Restful API, gRPC

Front End: HTML5, CSS3, Typescript, ReactJS , Next.js

AI: Langchain, Ollama, NLP, LangGraph, Prompt Engineering, Agentic Framework

Cloud Infra and Devops: AWS, Kubernetes, Docker, Git, Jenkins, Grafana, Prometheus, Kafka, Terraform

PROJECTS

LLM Powered File System Organizer, Texas A & M University

[Demo Link](#)

- Developed CortexFS, an intelligent file organization tool leveraging Large Language Models to summarize file contents and suggest optimal storage locations in file system

LeetCode Problem Recommendation System, Texas A & M University

[Demo Link](#)

- Implemented a personalized recommendation system using SASRec and BERT to efficiently recommend LeetCode problems tailored to individual user needs for optimized problem navigation (React, Flask)

EDUCATION

Texas A&M University, College Station, Texas

August 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