# 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, PostgreSQL, 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*

- Developed an end-to-end pavement analysis platform using a distributed microservice architecture
- Developed a robust backend architecture leveraging Springboot for core services, and implemented a Python-based image processing microservice consuming messages via RabbitMQ
- Optimized AWS services by implementing S3 lifecycle policies, reducing storage costs by 5% across web services
- Tech: ***Java, Python, Spring Boot, RabbitMQ, FastAPI, MySQL, EC2, Elastic Beanstalk, Docker***

**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
- Designed and implemented a POC for a **real-time network monitoring system**, 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, Python, C, Spring Boot, Kubernetes, Docker, Kafka, Proto-buffer***

**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**

## 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***