SHASHANKA JOIS

Computer Science Engineering student at RV College of Engineering with strong interests in System Design, software development and testing. Solved 600+ LeetCode problems with consistency, having strong grip in Data Structures and Algorithms. Learning and experiencing them continuously through hands on projects.

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GitHub: https://github.com/Shash-J

Education

R. V. College of Engineering, Bengaluru
Bachelor of Engineering in Computer Science CGPA: 8.40

KCET Rank: 336 (All karnataka) 10th: 98.40%
PUC-1: 98.00% PUC-2: 98.16%
JEE(Advanced)-AIR 20902
IAT-AIR 1206

Competitive Programming- solved 600+ LeetCode problems with 230+ days of continuous streak

Relevant Courses: Data Structures and Algorithms, Software Design and Development, OOP, DBMS & SQL, Computer Networks, Operating System, AI Research and Development.

Skills

Languages: C++, Python,Java, Javascript, HTML & CSS.
Tools: GitHub, Git, Docker, Firebase, Qdrant, AWS services, Cloud computing.
Other: Competitive Programming, DeepLearning & AI, Vector search, RAG, LLM Pipelines, VLM Architectures, Machine Learning.

Coding Profile

LeetCode: Solved 600+ problems across Data Structures and Algorithms.
Rating: 1600+ (Advanced Problem Solver).
Skills in: Arrays, Graphs, DP, Greedy, Trees.
Streak: Consistent problem-solving practice with **230+ days continuous streak** on LeetCode.

Languages Known

English, Kannada, Hindi

Major Projects

1. AI-Powered Log Analysis System (Ongoing)
Tech Stack: AWS IoT Core, Lambda, DynamoDB, Qdrant, Bedrock Titan, Python

- Designing a scalable log analysis system using AWS services and vector search (Qdrant).
- Built end-to-end pipeline: Edge Device → AWS IoT Core → Lambda → DynamoDB → Embeddings → Vector DB → LLM-based query system.
- Implemented modular and clean code architecture with separation of concerns (data ingestion, processing, querying).
- Maintaining structured Git workflow with version control, meaningful commits, and feature-based branching along with documenting system design, architecture, and workflows for long-term maintainability .
- Following strong software engineering practices: reusable and maintainable code, proper function abstraction, logging and debugging mechanisms, and handling of edge cases and failure scenarios.
- Integrated embedding-based semantic search using Bedrock Titan + Qdrant for efficient log querying.
- Built API layer for query handling and response generation.

2. Agentic Predictive Cloud Failover Intelligent Traffic Rerouting System
Tech Stack: Python, AWS EC2, Terraform, NGINX, psutil, HTML, JavaScript, Chart.js

- Architected a predictive cloud failover system that proactively rerouted live traffic to a local backup environment before server crashes, minimizing user disruption.
- Developed a Python-based reverse proxy and telemetry engine using `psutil` and heuristic ML logic to analyze real-time AWS EC2 metrics and predict infrastructure instability.
- Engineered a "Git-like" state synchronization mechanism that preserved and restored live user sessions across failover and cloud recovery cycles.
- Built a real-time observability dashboard to visualize telemetry streams, failover states, and downtime probability across live infrastructure.

Certificates

- **Software Conceptual Design →**
- **Soft Computing →**
- **Introduction to Deeplearning →**
- **AWS Cloud Technical Essentials →**
- **Software Testing →**
- **Fundamentals of Building AI Agents →**
- **Introduction to Computer Vision →**
- **SQL Foundations →**

Hobbies & Interests

State Level Chess player, Project model making, Badminton, Rubik's Cube, Geo-politics, Understanding Human Behavior.