

Suraj Maal

surajmal437@gmail.com | (+91) 6304940147 | linkedin.com/in/surajmal | github.com/suraj57n | leetcode.com/Suraj0690

EDUCATION

Keshav Memorial Institute of Technology

B.Tech in Computer Science and Engineering

Hyderabad, India

Dec 2021 – Apr 2025

- CGPA: 8.0/10
- Relevant Coursework: Operating Systems, Algorithms, Databases, Software Engineering, AI, Cloud Computing

EXPERIENCE

Engineering Intern

Altiushub (Startup)

Dec 2024 – Mar 2025

Hyderabad, India

- Developed microservices using Java and Spring Boot, improving system modularity and scalability.
- Optimized PostgreSQL queries, reducing execution time from 2000ms to 500ms, enhancing database performance.
- Implemented Kafka-based event-driven architecture to enable real-time data processing across services.
- Led CI/CD pipeline integration with Jenkins and GitHub Actions, reducing deployment time by 40%.

Project School Initiative Intern

Keshav Memorial Institute of Technology

Sept 2023 – Feb 2024

Hyderabad, India

- Designed and developed backend services for **Drone Swarm**, enabling autonomous drone communication.
- Implemented real-time messaging protocols for drone coordination using Python and DroneKit.
- Collaborated with a team of 4 to optimize algorithms for drone path planning and obstacle avoidance.

PROJECTS

Distributed Key-Value Store (2024)

- Built a fault-tolerant distributed key-value store using Raft consensus (Java, Spring).
- Implemented leader election, log replication, and failure recovery for reliability.
- Reduced read/write latency by 30% through caching optimizations.
- GitHub:** github.com/suraj57n/Distributed-Key-Value-Store

Chess Application (2023)

- Developed a fully functional chess game using React.js with drag-and-drop features for piece movement.
- Implemented game logic to handle chess rules, including check, checkmate, and stalemate.
- Deployed the application using GitHub Pages for easy accessibility.
- GitHub:** github.com/suraj57n/chess
- Live Demo:** suraj57n.github.io/chess

AI-Powered Image Editor (2024)

- Built an AI-driven image editor using JavaScript, TensorFlow.js, and React.js.
- Implemented features like background removal, object detection, and real-time filters.
- Optimized performance for real-time processing on low-end devices.
- GitHub:** github.com/suraj57n/imageEditor

TECHNICAL SKILLS

Languages: Java, Python, SQL, JavaScript

Frameworks/Tools: Spring Boot, Kafka, Docker, Kubernetes, RxJS, React.js

Databases: PostgreSQL, MongoDB, Redis

DevOps: CI/CD (Jenkins, GitHub Actions), Terraform, Cloud Deployments

Problem Solving: 880+ LeetCode problems solved, strong DSA expertise