SUMIT ROY

sumitfop@gmail.com | +91 74399 74632 | Hyderabad, India
Portfolio | GitHub | LinkedIn

SOFTWARE DEVELOPMENT ENGINEER | BACKEND / DEVOPS / SYSTEMS

Entry-level Software Development Engineer with strong foundations in Data Structures, Algorithms, and System Design. Hands-on experience building scalable backend systems, containerized applications, and cloud-native deployments. Actively seeking SDE, Backend, or DevOps roles with high ownership and learning opportunities.

TECHNICAL SKILLS

Languages: Java, JavaScript
Backend: Node.js, Express.js, REST APIs, JWT
Frontend: React, Tailwind CSS
Databases: MongoDB
DevOps & Cloud: Docker, Docker Compose, Kubernetes (kind), AWS EC2, NGINX
CI/CD: Jenkins, GitHub Actions
Infrastructure: Load Balancing, Monitoring & Logging, Environment Configuration
OS & Scripting: Linux, Bash
Core CS: Data Structures, Algorithms, OOP, System Design, Operating Systems, Computer Networks

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PROJECT EXPERIENCE

Donation Platform – Full Stack (Dockerized)
Tech: Docker, Docker Compose, Node.js, Express.js, MongoDB
- Designed and developed a full-stack donation platform with secure authentication and payment workflows
- Built modular RESTful APIs following clean backend architecture principles
- Containerized frontend, backend, and database using Docker and Docker Compose
- Implemented environment-based configuration and inter-service networking
- Focused on scalability, maintainability, and deployment consistency

Real-Time Chat Application – Kubernetes Based
Tech: Kubernetes (kind), Docker, Node.js, Express.js, MongoDB, Socket.io, Jenkins
- Developed a real-time chat application using WebSockets and event-driven architecture
- Deployed microservices on Kubernetes with service discovery and internal load balancing
- Designed CI/CD pipelines using Jenkins for automated container builds and deployments
- Applied Kubernetes best practices including deployments, services, and environment isolation

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SYSTEM DESIGN & PROBLEM SOLVING

- Solved 170+ DSA problems across arrays, trees, graphs, recursion, and dynamic programming
- Designed scalable systems with caching, horizontal scaling, and database optimization
- Strong understanding of OS concepts including scheduling, memory management, and concurrency

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EDUCATION

Bachelor of Technology (B.Tech) – Computer Science
Anurag University | 2025