

Rohit Singh

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TECHNICAL SKILLS

Languages: C++, JavaScript/TypeScript, Python, Java, SQL

Cloud: AWS (EC2, S3, IAM, ALB), Vercel, Render

Containers/Orchestration: Docker, Kubernetes

DevOps: Jenkins, GitHub Actions, Ansible, Vagrant, Linux

Backend: Node.js/Express, Spring Boot, REST APIs, WebSockets, JWT, RBAC

Databases: MySQL, PostgreSQL, MongoDB

Distributed Systems: Mutual exclusion, consistency models, caching, load balancing, observability, microservices

EXPERIENCE

Backend/DevOps Intern

Jun 2025 – Aug 2025

TechWorks Labs

Remote

- Architected CI/CD pipeline using GitHub Actions and AWS EC2, reducing deployment time by 65% across 12+ microservices.
- Containerized 8 Node.js services with Docker and Kubernetes, improving resource utilization by 40% with horizontal autoscaling.
- Implemented Redis caching layer reducing p99 latency from 850ms to 180ms and deployed centralized logging with Prometheus.

Wells Fargo Engineering Simulation (Forage)

Nov 2025

- Refactored monolithic Java backend into modular components and optimized dashboard queries, reducing latency by 35%.

PROJECTS

Waste-No-More — Real-Time Logistics Platform

Aug 2025 – Nov 2025

- Built using Node.js, WebSockets, MongoDB, JWT authentication, Docker, and deployed on Vercel/Render with CI/CD automation.
- Addressed lack of automated surplus food routing and real-time donor-volunteer coordination across distributed networks.
- Engineered WebSocket event propagation with sub-200ms latency and geospatial routing improving allocation efficiency by 32%.

Bhopal Food Choice App — MERN Stack

Feb 2025 – Apr 2025

- Built using React, Node.js, Express, Socket.io, MongoDB with rate limiting and JWT session management.
- Identified challenge of coordinating group food orders for train passengers with real-time cart synchronization requirements.
- Delivered shared-cart system supporting 20+ concurrent users, reducing query latency by 60% through MongoDB compound indexes.

FitLife Pro — Full-Stack Fitness Platform

Dec 2024 – Feb 2025

- Built using Spring Boot, React, MySQL, Docker with Gemini AI integration and automated CI/CD deployment pipeline.
- Observed need for personalized fitness recommendations and real-time multi-device workout synchronization without conflicts.
- Implemented WebSocket sync with optimistic concurrency control reducing conflicts by 85% and achieving 200ms p95 API latency.

EDUCATION

B.Tech in Computer Science & Engineering

2023 – 2027 (Expected)

KL University, Andhra Pradesh

CGPA: 9.4/10

Relevant Coursework: Distributed Systems, Cloud Computing, Algorithms, Operating Systems

ACHIEVEMENTS

- Solved 500+ problems on LeetCode/GeeksforGeeks; CodeChef 3 Star competitive programmer.
- Oracle Cloud Infrastructure Architect Associate and Aviatrix Certified Engineer; AWS Cloud Practitioner certified.
- SuperHack 2025 Semi-Finalist recognized for distributed backend architecture and scalability design.