

Om Saraykar

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Education

Shri Ramdeobaba College of Engineering and Management

Expected May 2027

B.Tech in Electronics and Computer Science (CGPA: 9.20 / 10)

- **Relevant Coursework:** Data Structures and Algorithms (C++), Database Management Systems, Object Oriented Programming, Cloud Computing, Operating Systems

Experience

OpenStreetMap

Jan 2026

Open Source Contributions

- Contributed **2 usability-focused PRs** to OpenStreetMap's main repository, addressing user-reported issues and improving platform usability.
- Collaborated with maintainers through code reviews and incorporated feedback while adhering to open-source contribution standards.

Shri Ramdeobaba College of Engineering and Management

May 2025 – Jul 2025

Research Intern

- Designed and developed Stratify, a full-stack AI-powered productivity platform with **3 core modules**: collaborative notes, task management with calendar integration, and AI-based journal analysis.
- Implemented AI-driven text analysis for journal data, researching methods to improve stress assessment and generate personalized user insights.

Projects

Automated Deployment & Orchestration Platform | TypeScript, Docker, AWS S3, Redis, Reverse Proxy 🔗

- Built an automated CI/CD platform processing **50+ GitHub repositories**, executing builds in isolated Docker containers and deploying applications to the cloud.
- Designed a custom Dynamic Reverse Proxy capable of routing **100+ unique subdomains** to individual project builds with automated request handling.
- Developed a build-server pipeline automating **3+ deployment stages** from project compilation to static asset upload on AWS S3 for cloud delivery.

AI Website Builder | Next.js, WebContainers API, TypeScript, Tailwind CSS, OpenRouter 🔗

- Engineered a browser-based AI code editor capable of scaffolding, editing, and executing **10+ full-stack application components** through natural language prompts.
- Leveraged WebContainers API to boot **Node.js environments in-browser**, enabling instant preview and execution with **0 server-side runtime dependencies**.
- Implemented a streaming file-system bridge enabling LLMs to perform **20+ concurrent file operations** and automated dependency management in real time.

Containerized Development Environment | Docker, Node.js, WebSocket, Xterm.js, Redis 🔗

- Developed a **multi-tenant Cloud IDE** supporting **5+ programming languages** with isolated and persistent development environments.
- Architected a Docker SDK-based backend capable of provisioning **50+ isolated containers** for secure code execution and resource separation.
- Integrated Xterm.js and WebSockets to support terminal session with real-time communication and collaborative code editing.

Technical Skills

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

Frameworks & Libraries: React.js, Next.js, Node.js, Bun.js, Express.js, Tailwind CSS, Prisma, Drizzle

Databases: MySQL, PostgreSQL, MongoDB, Redis

Tools & Platforms: Docker, Kafka, AWS (S3, EC2, IAM, ECR, Lambda, CloudFront), Prometheus, Grafana, GitHub Actions, Git, Linux

Engineering Concepts: Microservices, Distributed Systems, Cloud Orchestration, Containerization, System Observability, CI/CD, REST APIs, WebSockets, System Design