

Rut Maulik Koticha

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Computer Engineering student experienced in building backend REST APIs, full-stack applications, and managing databases using Java (Spring Boot), Node.js, and TypeScript. Focused on core computer science fundamentals with practical experience in Docker and Git.

TECHNICAL SKILLS

Languages	C, C++, Java, Python, Javascript, TypeScript, SQL
CS Fundamentals	Data Structures & Algorithms, OOP, DBMS, Operating Systems, Computer Networks, System Design
Backend	Spring Boot, Node.js, Express.js, REST APIs, Microservices Architecture
Databases	PostgreSQL, MySQL, MongoDB
DevOps & Systems	Docker, Linux, Git/GitHub, Postman

PROJECTS

Clinix — Enterprise Clinic Management System

May 2026 – Present

🔗 Lens 🔗 Forge

- Actively developing a modular backend REST API using Spring Boot to manage clinic operations, patient case sheets, and appointment scheduling.
- Designed the relational schema in PostgreSQL and implemented Flyway migrations to learn and apply structured database schema version control.
- Built a dynamic reporting module using Thymeleaf and OpenHTMLToPDF to programmatically generate PDFs.
- Developed a local file storage module using Spring MultipartFile to safely upload, validate (size/mime-type), and isolate patient PDF records on disk.
- *Tech Stack:* Angular, Spring Boot, Java, PostgreSQL, Docker, TypeScript

SourceNode — Multi-Tenant Productivity SaaS Platform

Dec 2025 – Apr 2026

🔗 Iris 🔗 Apollo-Sync

- Co-designed the high-level backend microservices architecture, defining service boundaries, communication paths, and containerized deployment schemes.
- Collaborated on multi-database architecture, designing SQL tables in PostgreSQL and hierarchical collections in MongoDB to support project tracking and chat history.
- Designed the operational workflows and specs for the asynchronous GitHub webhook sync service.
- Contributed to the Next.js (TypeScript) frontend implementation, connecting client views to backend WebSocket channels and REST services.
- *Tech Stack:* Next.js, Spring Boot, FastAPI, PostgreSQL, Docker, Tailwind CSS, Git.

Markipedia — Markdown-Driven Content Engine

Jul 2025 – Nov 2025

🔗 Markipedia

- Developed a full-stack REST API with Node.js, Express, and React 19 using a Controller-Service-Repository pattern to decouple business logic from database layers.
- Built a secure authentication system utilizing Passport.js to support social OAuth (Google/GitHub) and JWT session tokens stored in HttpOnly cookies.
- Scripted a Bash setup utility and tmux-based startup runner to automate database restoration and developer environment bootups.
- Integrated TanStack Query on the frontend for optimized server-state caching, background revalidation, and optimistic UI updates.
- *Tech Stack:* Node.js, Express.js, TypeScript, React.

EDUCATION

Dharmsinh Desai University

Jul 2023 – May 2027

B.Tech in Computer Engineering

CGPA: 8.06/10.0

Relevant Coursework: Data Structures & Algorithms, Object-Oriented Programming, Database Management Systems, Operating Systems, Computer Networks, System Design, Software Engineering Principles

Dholakiya School

Graduated 2023

Higher Secondary Certificate (12th Board)

Percentile Rank: 98.02

Secondary School Certificate (10th Board)

Percentile Rank: 99.37

ACCOMPLISHMENTS & CODING PROFILES

GATE 2026 (Computer Science and Information Technology)

Achieved an **All India Rank (AIR) of 11,705** with a Score of 452 and raw marks of 38.68/100 under rigorous nation-wide technical testing.

Hackathons & Tech Events

Active competitor in national level development hackathons, including **DUHacks 4.0** and **DUHacks 5.0** collaborative engineering pipelines.

Algorithmic Foundations

LeetCode (@koticharut) — Solved 100+ data structures and algorithmic challenges.

Codeforces (@RutKoticha) — Active competitor, handling runtime performance strategies under competitive time bounds.