SUMIT YADAV

Computer Engineering Student | Full-Stack Web Developer

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EDUCATION

Thakur College of Engineering and Technology, University of Mumbai 2024–2028
B.E. in Computer Engineering | CGPA: 9.81/10

Shri T.P. Bhatia College of Science 2022–2024
HSC (Class XII) | 84.67%

Holy Infant High School | 2014–2022
SSC (Class X) | 92.40%

TECHNICAL SKILLS

Languages: Java, JavaScript, TypeScript, SQL, C
Frontend: React.js, Next.js, HTML, CSS, Tailwind CSS
Backend: Node.js, Express.js, REST APIs
Databases: MongoDB, MySQL, PostgreSQL
Tools & Technologies: Git, GitHub, Vercel, Render, Postman, JWT, Socket.IO, Yjs

PROJECTS

Merge Canvas | *React, Node.js, Express, MongoDB, Socket.IO, Yjs*
- Built a full-stack collaborative whiteboard with real-time multi-user synchronization using Socket.IO and Yjs CRDTs.
- Implemented authentication and backend protections including JWT-based access control, rate limiting, payload-size limits, and Dockerized deployment.
- Developed interactive canvas functionality for real-time collaboration and conflict-free concurrent editing.

ERD Architect AI — AI-Powered ER Diagram Generator | *Next.js, TypeScript, React Flow, ELK, Gemini 2.5 Flash*
- Built an AI-powered tool that converts raw SQL, Prisma schemas, and natural-language descriptions into interactive, auto-laid-out ER diagrams.
- Integrated an ELK-based layout engine for automatic node/edge organization and high-resolution PNG/SVG export.
- Added interactive pan/zoom functionality with relationship and cardinality details displayed on hover.

TaskFlow | *Next.js, TypeScript, MongoDB, Mongoose, Zod*
- Built a task management application with authentication, protected APIs, and persistent todo data using Next.js App Router and MongoDB.
- Implemented access-token and refresh-token authentication with refresh-token rotation and Zod-based request validation.

ACADEMIC & EXTRACURRICULAR ACHIEVEMENTS

- Placed in the Top 15 among 300+ participants at a hackathon by developing FormFlow, a customizable form-builder application.
- Solved 190+ Data Structures and Algorithms problems across coding platforms.

POSITIONS OF RESPONSIBILITY

Computer Society of India (CSI), TCET | Public Relations Team
- Contributed to the PR team by supporting promotion and coordination of CSI technical events and activities.
- Developed the website for HackVerse, a hackathon organized by CSI TCET, supporting event information and participant engagement.