

Vatsal Umrania

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Education

K. J. Somaiya Institute of Technology, Mumbai
Bachelor of Technology in Information Technology

August 2023 – May 2027

Relevant Coursework

DBMS, Data Structures & Algorithms, Operating Systems, Computer Networks, Computer Organization & Architecture, Theory of Computation, Cybersecurity, Computer Vision

Technical Skills

Languages: JavaScript (ES6+), TypeScript, Python, SQL, Solidity
Web Stack: React, Next.js (App Router), Node.js, Express.js, Tailwind, tRPC
Databases: PostgreSQL, MongoDB, MySQL, Redis, Prisma
Cloud & DevOps: Docker, AWS (EC2, S3), Vercel, Inngest, CI/CD
Concepts & Tools: REST APIs, WebSockets, Clerk Auth, Microservices, Git/GitHub

Experience

Software Engineer Intern — Mass International Logistics May 2025 – Jul 2025 | Dammam, Saudi Arabia
– Built core modules for a logistics platform, improving workflow efficiency by 30%.
– Optimized REST APIs (Node.js, Express, MySQL), cutting latency by 25%.
– Developed React dashboards that reduced manual reporting work by 30%.
– Coordinated with teams to refine requirements and ship features smoothly.

Projects

Blockchain Document Verification Platform June 2025 – Sep 2025
– Built a decentralized verification platform enabling tamper-proof document validation using React and Web3.js.
– Developed and deployed Solidity smart contracts integrated with MetaMask, reducing verification time by 70%.
– Designed a scalable backend with MongoDB and optimized UI for 100+ concurrent users.

Vibe — AI Web Application Builder July 2025 – Oct 2025
– Developed an AI-powered platform that converts natural language prompts into deployable Next.js applications with real-time preview and a virtual file explorer.
– Engineered a secure, sandboxed remote code-execution pipeline using E2B and orchestrated durable multi-step AI workflows with Inngest for reliable long-running tasks.
– Architected a fully type-safe backend using tRPC and Prisma, integrating Clerk authentication to ensure secure, validated communication across the system.

CollabIDE — Real-Time Collaborative Code Editor Dec 2024 – Feb 2025
– Developed a real-time collaborative code editor with sub-200ms synchronization using Socket.IO.
– Implemented OAuth + JWT authentication and role-based access using Prisma and PostgreSQL.
– Integrated Monaco Editor with multi-language syntax highlighting and live presence indicators.

Extracurricular & Leadership

Society for Data Science (S4DS) — KJSIT June 2024 – Present
– Assisted in organizing technical workshops and data-science community events.
– Supported coordination and execution of student learning initiatives.