

SAUBHAGYA SHARMA

Full-Stack Developer | B.Tech Computer Science & Engineering, KIET (3rd Year)

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[GitHub](#) | [LinkedIn](#) | [LeetCode](#) | [npm](#)

SUMMARY

Third-year CS student and full-stack developer (React, Node.js, TypeScript, PostgreSQL) who builds and deploys production-style products: a multi-tenant school management SaaS, a real-time communication platform, and an npm CLI with 1,500+ downloads. 650+ LeetCode problems solved. Seeking a Software Engineering internship.

TECHNICAL SKILLS

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

Frontend: React.js, Next.js, Redux Toolkit, RTK Query, TanStack Query, Tailwind CSS, shadcn/ui

Backend: Node.js, Express.js, REST APIs, JWT Authentication, RBAC, Socket.io, WebSockets, WebRTC, Webhooks, Zod

Databases & ORM: PostgreSQL, MongoDB, MySQL, Redis, Prisma

Cloud & Tools: AWS, Docker, Cloudflare (Pages, R2), Render, Vercel, Git, GitHub, Postman, npm, Neon, Supabase

CS Fundamentals: Data Structures & Algorithms, OOP, DBMS, Operating Systems

PROJECTS

SchoolHub — Multi-Tenant School Management SaaS

[GitHub](#) | [Live Demo](#)

Tech Stack: React 19, TypeScript, TanStack Query, Node.js, Express, Neon, PostgreSQL, Prisma, Zod, Razorpay, Cloudflare R2

- Built a multi-tenant SaaS with role-based portals (Super Admin, School Admin, Teacher, Student, Parent) covering attendance, homework, fee collection, exams and report cards, timetables, and a library.
- Designed a 22-model PostgreSQL schema with shared-schema multi-tenancy; enforced per-school data isolation via tenant middleware and schoolId indexing to block cross-tenant (IDOR) access.
- Secured the API with JWT access/refresh tokens in HTTP-only cookies, RBAC guards, and Zod request validation.
- Integrated Razorpay UPI fee payments, receipts, and Cloudflare R2 uploads; deployed on Cloudflare Pages and Render.

Multi-Server Communication Platform

[GitHub](#) | [Live Demo](#)

Tech Stack: Next.js 16, TypeScript, Socket.io, LiveKit, TanStack Query v5, PostgreSQL, Prisma, Tailwind CSS, Clerk, UploadThing

- Built a real-time Discord-style platform with multi-server support, text/voice/video channels, DMs, and role-based access.
- Engineered a hybrid real-time architecture (standalone Socket.io service + Next.js API routes) for live messages, edits, and deletes.
- Added cursor pagination, infinite scroll, optimistic updates, a polling fallback, and media attachments.

RepoTrace — Interactive Codebase Intelligence Tool

[GitHub](#) | [npm](#)

Tech Stack: TypeScript, Node.js CLI, AST Parsing, React Flow, Dagre

- Published an npm CLI (npx repotrace) that renders a codebase as an interactive dependency graph; 1,500+ downloads in week one.
- Built an AST engine for TypeScript, JavaScript, Python, and Dart/Flutter that resolves imports and symbols without running code.
- Implemented Kahn's topological sort, cycle detection/breaking, directory clustering, and execution-flow tracing.

EXPERIENCE

Backend Development Intern — DecodeLabs (Remote)

Jun 2026 – Jul 2026

- Contributed to the backend of a School LMS using Node.js, Express.js, PostgreSQL, and Prisma.
- Developed REST APIs and implemented JWT authentication with HTTP-only cookies.
- Collaborated with the frontend team on API integration and resolved defects raised in QA.

EDUCATION

KIET Deemed to be University

2024 – 2028

B.Tech in Computer Science and Engineering — CGPA: 8.27

ACHIEVEMENTS

- Achieved **1,500+ npm downloads** for RepoTrace within its first week of launch.
- Solved 650+ DSA problems on LeetCode; peak contest rating of **1690**.
- Open-source contributor to **Better Auth** and **Clerk**.
- Winner, iOS Developer Night Hackathon; selected for Smart India Hackathon (SIH) college internals.

CERTIFICATIONS

AWS Certified Cloud Practitioner — Amazon Web Services (AWS)