AARYAN YADAV

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EDUCATION

Thakur College of Engineering and Technology (TCET) Sep 2024 – Present
Bachelor of Engineering in Computer Engineering *Mumbai, India*

TECHNICAL SKILLS

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

Web Technologies: HTML5, CSS3, REST APIs

Frameworks & Libraries: React.js, Node.js, Express.js, Socket.io, Java Servlets, shadcn/ui

Databases: MongoDB, MySQL, PostgreSQL

Developer Tools: Git, GitHub, Docker, Postman, VS Code

AI Tools & Concepts: Gemini API, Prompt Engineering

Core Computer Science: Data Structures and Algorithms, Object-Oriented Programming, DBMS, Operating Systems, Computer Networks

PROJECTS

TraceBack | *React.js, Vite, Node.js, Express.js, MongoDB, Mongoose, Tailwind CSS* github.com/Aaryan85/TraceBack

- Built a full-stack error-monitoring platform for Node.js applications, combining a React.js dashboard, an Express.js REST API, and MongoDB storage to help developers capture, group, and debug production errors.
- Developed and published a custom Node.js SDK (traceback-node) with Express middleware that reports errors without blocking the host application and redacts passwords, tokens, and API keys before data leaves the host.
- Implemented SHA-256 error fingerprinting to group recurring exceptions, and secured the API with session-based authentication (scrypt password hashing, HTTP-only cookies), project-scoped ingestion keys, and sliding-window rate limiting.

InfraChat | *Enterprise Communication Platform*

- Built an enterprise communication platform that reduces noise and improves structured team communication through partitioned room channels and direct messaging.
- Designed a three-tier role-based access control model to govern user permissions and enforce structured access governance across the platform.
- Implemented keyboard-driven slash commands for faster workflows and permanent audit logging to record platform activity for accountability and traceability.

LEADERSHIP & RESPONSIBILITIES

Computer Society of India (CSI), TCET
Technical Team

- Contributed to technical initiatives and web development for college events.
- Built the website for HackVerse, a hackathon organized by CSI TCET, to present event information and support participant engagement.

ACHIEVEMENTS

- Secured **Top 3 at Recode Hackathon**, organized by MPSTME ACM.