

RISHABH TRIPATHI

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Professional Summary

Full-Stack Developer and B.Tech CSE (AI + Robotics) undergraduate at VIT Chennai (CGPA: 9.14/10). Experienced in designing and deploying scalable, production-ready web applications using HTML5, CSS3, JavaScript (ES6+), Node.js, Express.js, and MySQL/MongoDB. Strong command of REST API design, database schema planning, authentication systems, and modular code architecture. Proven ability to own features end-to-end — from schema design through deployment — across multiple independent projects. Available for full-time remote work with 8 hours/day commitment.

Technical Skills

- **Languages:** JavaScript (ES6+), TypeScript, HTML5, CSS3, Python, C, C++, Java, SQL
- **Frontend:** React.js, Next.js, Tailwind CSS, Responsive Design, Framer Motion
- **Backend:** Node.js, Express.js, REST API Design, JWT Authentication, OAuth 2.0, Role-Based Access Control
- **Databases:** MySQL, MongoDB, Supabase
- **Tools & Platforms:** Git, GitHub, Vercel, VS Code, Redux Toolkit, Stripe (Webhooks), Cloudinary
- **CS Fundamentals:** Data Structures & Algorithms, OOP, DBMS, Operating Systems

Education

Vellore Institute of Technology, Chennai August 2024 – August 2028
B.Tech in Computer Science Engineering (AI + Robotics) CGPA: 9.14 / 10.00

Projects

EduPulse — Production-Grade Learning Management System Live | GitHub
Next.js / Node.js / Express.js / MySQL/MongoDB / Redux Toolkit / Stripe / JWT / Google OAuth

- Built a full-stack LMS with dual-token JWT authentication and Google OAuth 2.0, implementing secure role-based access control for students and instructors.
- Designed a scalable Course → Section → Lesson data hierarchy; developed clean REST APIs with modular controllers following best practices.
- Integrated Stripe payment flows with webhook handling for enrollment; managed media uploads via Cloudinary and global state via Redux Toolkit.

AlgoForge 2.0 — Gamified DSA Learning Platform Live | GitHub
Next.js / React.js / Node.js / MongoDB / Tailwind CSS / Google OAuth

- Developed a full-stack platform with structured DSA roadmaps, XP/leveling, daily streak tracking, and a real-time global leaderboard backed by Node.js REST APIs.
- Implemented Google OAuth authentication; designed and documented modular backend controllers for user progress, badges, and leaderboard management.
- Built responsive, animation-rich frontend with Tailwind CSS and Framer Motion; deployed on Vercel with CI/CD via GitHub.

UrbanAlert — Civic Issue Reporting Platform Live | GitHub
Next.js / Node.js / Express.js / MySQL → MongoDB / REST APIs

- Designed and built a dual-portal civic platform (citizen and government) with role-based access; planned database schema and implemented REST API controllers for cross-portal data flow.
- Migrated backend database from MySQL to MongoDB, rewriting schema and query logic; ensured clean, maintainable code throughout migration.
- Integrated LLM-powered issue triage to automatically categorize and prioritize submitted reports.

Traceon — Interactive Codebase Analysis Tool Live | GitHub
Next.js / TypeScript / React Flow / Node.js / MongoDB

- Built a codebase intelligence tool that fetches GitHub repositories and visualizes file dependency graphs using force-directed layouts powered by React Flow.
- Implemented AST-based parsing with worker threads for CPU-intensive analysis; added circular dependency detection and impact analysis features.

- Integrated an AI-powered chat interface enabling natural-language queries over codebase structure; maintained clean, well-documented TypeScript throughout.

NextStep — Career Guidance Platform

Live | GitHub

Next.js / *TypeScript* / *Node.js* / *Tailwind CSS* / *Gemini API* / *Hugging Face BERT*

- Built hackathon project featuring career guidance, skill gap analysis, internship discovery, and scholarship matching for first-generation college students.
- Integrated Gemini API for AI-powered career recommendations and a fine-tuned BERT model for fraud detection in job postings.

Hackathons & Activities

- **Smart India Hackathon (SIH) 2025** — Delivered a functional full-stack prototype under 36-hour constraints. Oct 2025
- **GirlScript Summer of Code (GSSoC)** — Active open-source contributor; contributed Next.js 15 App Router and React 18 optimizations. 2025
- **College-Level Hackathons** — Built end-to-end solutions rapidly with cross-functional teams. 2024 – Present
- **Member**, Business Innovation Community (BIC), VIT Chennai. 2024 – Present

Certifications & Training

- **Full-Stack Web Development** — Udemy: HTML, CSS, JavaScript, React.js, Node.js, REST APIs, MySQL/MongoDB.
- **Generative AI Workshop** — Hands-on LLMs, prompt engineering, and real-world AI application development.

Areas of Interest

Full-Stack Web Development | REST API Architecture | Database Design (MySQL / MongoDB) | Backend Systems
| UI/UX with HTML5 & CSS3 | JavaScript & Node.js