

Shriansh Tripathi

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EDUCATION

Vellore Institute of Technology
Computer Science and Engineering

Chennai, Tamil Nadu
2024–2028

TECHNICAL SKILLS

Languages: Go, Python, TypeScript, JavaScript, C, Java, HTML5, CSS3

Frameworks & Libraries: React.js, Next.js, Tailwind CSS

Infrastructure & Tools: Docker, NATS JetStream, gRPC, Protocol Buffers, PostgreSQL, Redis, ClickHouse, Prometheus, OpenAPI

State & Data Handling: React Hooks, Context API, REST APIs, JSON

Build & Dev Tools: Git, GitHub, pnpm, Vite, npm, bun, Linux

PROJECTS

- **Tribunal — Distributed Code Execution Platform** [GitHub](#)
 - **4-microservice Go platform** (Problem, Judge, Analytics, API Gateway) on **gRPC + NATS JetStream**, each owning its own datastore (**PostgreSQL, Redis, ClickHouse**).
 - **Warm Docker sandbox pool** cut latency **430ms → 96ms (77% faster)**; load-tested **55,762 jobs**, breaking point at **1,600 concurrent users**.
 - **44+ race-detector tests**, ClickHouse analytics, **JWT** gateway with per-user rate limiting.
- **ManimBooks** [GitHub](#)
 - Built and refined the frontend editor interface enabling seamless integration of **Manim animations** within e-book content.
 - Improved usability for content creators, making animated concepts accessible to students in a book-like learning experience.
- **Yatra — Blockchain-Based Tourist Safety Platform** [GitHub](#)
 - Developed a blockchain-powered platform focused on **tourist safety and privacy**.
 - Implemented **e-KYC verification, decentralized digital identities**, and city-level blockchain networks for secure identity management and real-time emergency response.

VOLUNTEERING

Frontend Developer

College Event Management Platform

August 2025 – November 2025

- Designed, developed, and maintained the official college event website using **Next.js**, ensuring a responsive and user-friendly interface across devices.
- Scaled the platform to support **25,000+ users**, handling high traffic during event registrations and announcements with **zero downtime**.

Joint General Secretary

IEEE Computer Society, VIT Chennai

September 2025 – Present

- Served as Joint General Secretary, contributing to the planning and execution of **multiple technical events** and initiatives.
- Developed and managed event websites, handled sponsor requirements, and supported smooth event operations.

ACHIEVEMENTS

- Secured **1st place at NeXathon'25**, a **24-hour hackathon** hosted by Nexus, VIT Chennai, competing against **120+ teams** from multiple colleges.
- Participated in the **Smart India Hackathon (SIH)** up to the **3rd level**, gaining experience in large-scale problem solving and team-based development.

EXTRA-CURRICULAR ACTIVITIES

- Active contributor in the Free and Open Source Software (FOSS) community in Chennai, engaging in community-driven development and open collaboration.
- Community and technical volunteer for large-scale tech events and hackathons with participation of **1,000+ attendees**, supporting planning, coordination, and on-ground execution.