

TEJAS PATIL

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Objective

Third-year Information Technology undergraduate and Full-Stack Developer with hands-on experience building scalable web applications and backend systems. Skilled in the MERN stack, C++, JavaScript, and Data Structures Algorithms. Passionate about solving real-world problems through technology and developing efficient, user-focused software solutions. Open to opportunities in software development and engineering.

Technical Skills

Languages: C++, JavaScript, HTML5, CSS3

Frontend Development: React.js, Tailwind CSS, Responsive Web Design

Backend Development: Node.js, Express.js, REST APIs

Database: MongoDB, Mongoose

Full Stack Development: MERN Stack Development

Generative AI & MCP: Generative AI, MCP (Model Context Protocol), AI Tool Integration, Prompt Engineering

Tools & Technologies: Git, GitHub, Postman, VS Code, Cloudinary, Render, Vercel

Concepts: Authentication & Authorization, CRUD Operations, API Integration, Responsive Design

Projects

PayGate 402 – Agentic Payment Integrity Mesh | *React, Node.js, Express.js, MongoDB, AP2, x402, Razorpay* [GitHub](#)

- Built an **agentic payment gateway** enabling AI agents to discover products, negotiate within merchant policies, and execute secure transactions through cryptographically signed mandates.
- Implemented **AP2/x402, Safe MCP, RSA-PSS 2048-bit signatures, nonce-based anti-replay, and a five-checkpoint verification pipeline** for secure agentic settlement.
- Integrated **Razorpay Checkout** with a pre-funded wallet, atomic ledger controls, deterministic spend limits, automated rollback, and explainable audit logs.

CricSense – Real-Time Cricket Telemetry System | *React Native, Expo, Node.js, WebSockets, Unity, C#* [GitHub](#)

- Built a **real-time cricket motion tracking system** capturing 9-DOF sensor telemetry from accelerometer, gyroscope, DeviceMotion, and magnetometer sensors.
- Developed a **Node.js WebSocket telemetry pipeline and physics engine** to calculate swing speed, angular velocity, impact force, and stroke timing in real time.
- Built a mobile-based cricket telemetry system using **React Native and Expo** to capture real-time bat movement by mounting a smartphone on the bat and collecting accelerometer, gyroscope, and magnetometer data.

FinSecure – Enterprise Security Platform | *Next.js, Node.js, Express.js, MongoDB, Nokia APIs* [GitHub](#)

- Built a **multi-layered fraud prevention platform** using Nokia Network-as-Code APIs to verify identities and prevent SIM-swap fraud for banks and fintechs.
- Integrated **Nokia Open Gateway APIs** including SIM Swap, Number Verification, KYC Match, and Scam Signal with an AI risk engine for real-time onboarding risk assessment.
- Developed **web and mobile interfaces** with secure encrypted data storage and compliance-focused workflows for fraud detection and identity verification.

Achievements

- First Prize at Udaan Innovation and Entrepreneurship** – Recognized for developing an innovative project with entrepreneurial potential.
- 3rd Prize at Sobous and IdeaThon** – Awarded for presenting an impactful project.
- Ranked in **Top 10** at the **GSMA Nokia Open Gateway Hackathon** – India Connected: APIs for a Billion Lives.
- TECHgium® 9th Edition by LT Technology Services (LITS)** — Advanced to the **Virtual POC Presentation Round** with **Helios AI**, a GenAI-powered predictive solar farm management solution.
- Ranked **Top 8 out of 8,700+** registrations at the **Tesco Retail Media InnovAItion Jam**, powered by Dunnhumby.
- Shortlisted among **8 teams out of 117 participants** at **Globathon 2025** organized by Globatech, Pune.

Education

R. C. Patel Institute of Technology

Bachelor of Technology in Information Technology; Expected Graduation: May 2028

Shirpur, Maharashtra