

Vishal Ghuge

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EXPERIENCE

Founder & Full-Stack Developer — SPPU Engineers

Jan 2025 – Present

Node.js, Express.js, Firestore, Webhooks, Distributed Payment Workflows

- Designed and shipped a production ed-tech platform serving **10,000+** students, **1,500+** paid orders, **Rs.1.55L+** revenue, **1.5M+** Google impressions, and **50K+** organic visits.
- Architected an idempotent webhook ingestion pipeline handling concurrent Cashfree callbacks — transaction-based status checks prevent duplicate writes across multi-collection atomic updates (orders, enrollments, coupon usage, user stats).
- Designed multi-tier access control with role-protected admin routes: Firebase token verification middleware, Firestore role checks, and full audit trail for all sensitive operations.
- Decoupled Google Drive access provisioning into a separate Apps Script layer triggered post-database commit, isolating external API failures from payment state consistency.
- Reduced database read load by **70%** via client-side caching (1-hour TTL) with composite index optimization on Firestore, eliminating unfiltered collection scans under production traffic.

Web Master — SIT ACM Student Chapter

Dec 2024 – Present

Next.js 15, TypeScript, Node.js, Firestore, Cloudinary, RBAC

- Architected the official chapter platform: QR-based certificate verification (Firestore lookup by cert ID), hybrid SSR/CSR event management, searchable alumni directory, blog CMS, and multi-tier admin roles.
- Optimized Firestore query patterns and rendering workflows across dynamic event and alumni pages, improving search responsiveness and page load performance.
- Led **Code2Launch 2025** — a 3-day workshop mentoring **70+** students in full-stack development and deployment workflows.

Full-Stack Developer Intern — Enginow

Jan 2026 – Feb 2026

React, Node.js, Firebase

- Built JWT-based authentication, RBAC middleware, and a course enrollment platform with admin-side management for a campus utility application.

PROJECTS

TestForge — AI-Powered API Testing Platform | 🌐 GitHub | 🌐 Live

Next.js, TypeScript, OpenAI API

- Auto-generates positive, negative, and edge-case test suites from API specs using structured OpenAI prompting; executes them live and detects request/response mismatches in real time.
- AI-assisted failure analysis highlights API response discrepancies and regression patterns; performance dashboard tracks pass rate and latency trends across all test runs.

Hirely — Full-Stack Job Portal | 🌐 GitHub | 🌐 Live

React, Node.js, Express.js, MongoDB, JWT

- Job portal with JWT auth, email OTP verification, RBAC separating user/admin roles, and REST APIs for job and application lifecycle management; deployed on Vercel + Render.

TelhanSathi — SIH 2025 National Winner | 🌐 GitHub

Python, Flask, Socket.IO, ML

- National-winning agri-marketplace with real-time Socket.IO auction engine, ML crop profitability model, IoT sensor ingestion pipeline, and multi-role dashboards for farmers and buyers.

TECHNICAL SKILLS

- **Languages:** JavaScript, TypeScript, PHP
- **Frontend:** React, Next.js, Tailwind CSS
- **Backend & Databases:** Node.js, Express.js, MongoDB, MySQL, Firestore, REST API Design, Database Optimization
- **Systems & Integrations:** JWT Auth, RBAC, Webhooks, Idempotent APIs, WordPress REST API
- **Tools & Deployment:** Git, GitHub, Postman, Vercel, Render, Google Apps Script

ACHIEVEMENTS

- **Smart India Hackathon 2025 — National Winner** (Software Category, Grand Finale)
- **Infosav Hackathon, ABV-IIIT Gwalior** — Top 10 out of 800+ teams
- **IEEE TechSangam 2K25 Finalist, MIT ADT University** — Top 50 out of 315+ teams
- **MSBTE State-Level Project Competition Finalist**

EDUCATION

Sinhgad Institute of Technology, Lonavala

Pune, Maharashtra

B.E. Computer Engineering | CGPA: 7.57/10

Expected: June 2027

Shreyash College of Engineering and Technology

Chh. Sambhajinagar, Maharashtra

Diploma in Computer Engineering | 84.74%

Completed: June 2024