

Divyanshu Sharma

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EDUCATION

Vellore Institute of Technology

Chennai, India

B.Tech in Computer Science and Engineering, CGPA: 8.24/10

Aug. 2023 - May 2027

- Coursework: Data Structures and Algorithms, OOP, Operating Systems, DBMS, Computer Networks, Artificial Intelligence, Machine Learning

EXPERIENCE

Junior Core Member

Apr. 2025 – Apr. 2026

Google Developer Groups (GDG) VIT Chennai

Chennai, Tamil Nadu

- Drove 500+ hackathon registrations as a measurable adoption outcome by architecting the end-to-end participant registration and check-in platform using React, Node.js, and Express.js following agile development practices.
- Improved backend reliability and reduced form submission errors by designing RESTful APIs with server-side validation to support real-time form handling and persistent data storage across 500+ concurrent users.

OPEN SOURCE CONTRIBUTIONS

Node.js Core | C++, JavaScript, AsyncLocalStorage, V8

Mar. 2026 - Present

- Eliminated recursive APM instrumentation overhead for all diagnostics channel subscribers (PR #63651) by implementing opt-in suppression via lazy AsyncLocalStorage initialization, delivering zero overhead on the normal subscriber path.
- Fixed a fatal REPL crash affecting all users with asm.js modules (PR #63491, approved by core maintainer Jasnell) by adding a `can_call_into_js()` guard in `src/node_errors.cc` with SetImmediate-based deferred emission, preserving all `--redirect-warnings` routing.

PROJECTS

RideHub | Next.js 15, TypeScript, FastAPI, PostgreSQL, OSRM, Nominatim, Capacitor, Framer Motion

May 2025 - Present

- Delivered a unified ride search and booking platform across 5 transport services (Uber, Ola, Rapido, Metro, Bus) by building a full-stack Next.js 15 App Router and FastAPI architecture, deployed on Vercel with real road routing via OSRM polyline decoding.
- Reduced initial page load time by 20ms and improved user engagement through skeleton screen loading states, lazy-loaded route components, and Framer Motion micro-animations, achieving a 7000ms rendering efficiency benchmark.
- Shipped a production Android APK by wrapping the Next.js frontend with Capacitor and integrating Google OAuth 2.0, guest mode, and bcrypt-secured username/password auth, extending platform reach to mobile users.

NABHA Health | Node.js, React.js, Express.js, MongoDB, RAG, Twilio, Socket.io, Cloudinary

Jan. 2025 - Apr. 2025

- Enabled 24/7 AI-assisted patient intake for low-literacy rural users by building a voice triage agent on Bolna.ai with Twilio telephony, classifying severity across 5 urgency levels and reducing hospital overcrowding in demo testing.
- Accelerated doctor-patient consultations by integrating Socket.io-powered real-time video calling with prescription detection via OpenCV, enabling accessible consultations and accurate prescription processing for rural healthcare workers.
- Reduced frontend perceived latency by implementing lazy-loaded React components and skeleton screens; served prescription images via Cloudinary CDN transforms, cutting median image load time and improving session retention across rural low-bandwidth users.

RBAC-DocEncryption | Solidity, Next.js, AES-256-GCM, SHA-256, Hardhat, Gemini API, OpenCV

Jan. 2026 - Apr. 2026

- Achieved zero plaintext exposure in a multi-role document system by implementing field-level AES-256-GCM encryption with unique per-column keys, master-key-wrapped JWT-based RBAC, and Gemini API with OpenCV for sensitive-region detection.
- Enabled tamper detection and immutable audit logging by integrating Solidity smart contracts via Hardhat to store SHA-256 document hashes and log role-gated access events on-chain.

TECHNICAL SKILLS

Languages: Python, Java, C, C++, JavaScript, TypeScript, R

Frameworks: React, Next.js, Node.js, Express.js, FastAPI, Tailwind CSS, Framer Motion

Tools & Platforms: Git, Docker, Vercel, Render, Capacitor, Socket.io, Cloudinary, Twilio, Supabase, ThunderClient

Databases: PostgreSQL, MongoDB, MySQL

ACHIEVEMENTS

Indian Patent No. 202641008474

2026

Smart Self-Healing Drone Propeller System

- Designed an autonomous in-flight crack repair system integrating self-healing polymers, Shape Memory Alloys, and real-time sensors, reducing operational downtime for delivery, surveillance, and rescue drones.

WorldQuant IQC 2026 - Ranked under 40 globally out of 21,700+ teams (Top 0.2%)

2026

3-stage competition, 80,000+ participants across 142 countries

Smart India Hackathon 2025 - Institute-Level Selection

2025

Led 6-member agile team to Top 50 out of 864 teams at VITISH'25 (24-hour sprint, 27 Sept 2025); advanced to national SIH track