

# Divyanshu Sharma

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## EDUCATION

**Vellore Institute of Technology, Chennai**

*B.Tech. in Computer Science and Engineering, CGPA: 8.24/10.0*

Chennai, India

*Aug. 2023 – May 2027*

## OPEN SOURCE CONTRIBUTIONS

**Node.js Core**

Mar. 2026 – Present

*C++, JavaScript, AsyncLocalStorage, V8*

- Fixed a crash in the Node.js REPL that hit any user loading `asm.js` modules, caused by an unguarded call into JS from native code; added a can-call-into-JS check and moved the warning emission to a deferred `SetImmediate` call so existing `--redirect-warnings` behavior kept working (PR #63491, reviewed and merged by core maintainer James M Snell).
- Removed unnecessary instrumentation overhead in Node's diagnostics channel by making `AsyncLocalStorage` initialization lazy and opt-in, so subscribers that don't need it pay zero cost on the normal path (PR #63651, reviewed by the Node.js diagnostics team).

## PROJECTS

**RideHub** | *Next.js 15, TypeScript, FastAPI, PostgreSQL, OSRM, Capacitor*

May 2025 – Present

- Built a transport search app comparing routes across Uber, Ola, Rapido, metro, and bus, using OSRM for real road routing, with a Next.js/FastAPI stack deployed on Vercel.
- Packaged the app as an Android APK with Capacitor and added Google OAuth and a guest mode, so it works as an installable app rather than just a mobile web page.

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

Jan. 2025 – Apr. 2025

- Built an AI-assisted patient intake system for low-literacy rural users, using a voice agent (Bolna.ai + Twilio) to triage patients by urgency before a doctor gets involved.
- Wrote a RAG pipeline over patient records using the Gemini API so frontline health workers get a structured summary instead of raw notes.
- Added Socket.io video consultations and OpenCV-based prescription parsing to pull structured medicine data from a photographed prescription.

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

Jan. 2026 – Apr. 2026

- Built a role-based document system encrypting every sensitive field with AES-256-GCM under a master-key-wrapped scheme, so no plaintext sensitive data sits in the database if a row is compromised.
- Used the Gemini API with OpenCV to auto-detect sensitive regions of a document before encryption, instead of relying on manual tagging.
- Logged every document access as a SHA-256 hash on an append-only Solidity contract (via Hardhat) so access history can't be edited after the fact.

## ACHIEVEMENTS

**Indian Patent No. 202641008474 – Smart Self-Healing Drone Propeller System**

2026

*Published and Granted*

- Granted a patent for an autonomous in-flight crack repair system combining self-healing polymers, shape memory alloys, and real-time crack detection sensors to cut downtime on delivery, surveillance, and rescue drones.

**WorldQuant IQC 2026 – Stage 2 National Finalist**

2026

*India Rank 6, Global Rank 26 (Top 0.1% of 21,700+ teams)*

- Advanced to the National Finals on the WorldQuant BRAIN platform out of 150,000+ participants across 142 countries in a three-stage quantitative finance competition.

**Smart India Hackathon 2025**

2025

*Institute-Level Selection*

- Led a 6-member team to a top 50 finish out of 864 teams at VITISH'25 with NABHA Health, selected for the national SIH track.

## TECHNICAL SKILLS

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

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

**Tools & Platforms:** Git, Docker, Vercel, Render, Socket.io, Cloudinary, Hardhat

**Databases:** PostgreSQL, MongoDB, MySQL