

DEEPAK JHA

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SUMMARY

Software engineering student with hands-on experience in backend development, mobile application development, and distributed systems. Proficient in full-stack development using Node.js, React Native, and Kotlin.

TECHNICAL SKILLS

Programming Languages: JavaScript, TypeScript, Kotlin, Python, C++, HTML, CSS
Frameworks & Libraries: Node.js, React Native, React.js, Next.js, Jetpack Compose, Express.js
Databases: PostgreSQL, MongoDB, Firebase, Supabase
Tools & Platforms: Git, GitHub, Docker, Linux, Postman, REST APIs, QGIS

WORK EXPERIENCE

Fullstack developer Intern May 2026 – ongoing
Cracktier Technologies *Vadodara, Gujarat*

- Engineering and maintaining scalable hostel management and ERP modules in **Node JS**, streamlining student operations, room allocation, billing, attendance, and administrative workflows for improved operational efficiency.

Android Developer, (Contract) Jan 2026 – Feb 2026
ISRAD Sports LLP *Vadodara, Gujarat*

- Developed a **React Native** mobile application for a pickleball club featuring real-time score tracking, player leaderboards, and GPU-accelerated court animations using **React Native Skia** and **Reanimated**.

Backend and Android Developer Intern Nov 2025 – Dec 2025
Tinkering Hub, Parul University *Vadodara, Gujarat*

- Designed and implemented RESTful backend services and an Android AR navigation module for an AR/VR platform using **ARCore**, **SceneView**, and **Kotlin**, enabling optimized image streaming, automated image-to-panorama processing, and real-world anchored 3D route overlays.

PROJECTS

CampusFind — Campus Navigation System [\(Live Demo\)](#)

- Integrated **OpenStreetMap** and **GeoJSON** for GPU-accelerated map rendering; added real-time AR directional guidance via device orientation sensors.
- Deployed as an offline-first **Progressive Web App (PWA)** with **ImageKit CDN** for optimized asset delivery.

Medical Emergency Service App — Android Application

- Engineered a **React Native** Android app providing real-time routing to nearby hospitals using **MapLibre**, **Valhalla** routing engine, and **Google Maps API**.
- Rendered and performed low-latency spatial queries on a dataset of **200,000+ hospitals** across India,

NamasteSetu — AI-Powered Medical Coding Microservice [\(Live Demo\)](#)

- Built a **Node.js** microservice with a **Retrieval-Augmented Generation (RAG)** pipeline and semantic search to map WHO traditional medicine records to **ICD-11** codes; exposed via **25+ RESTful API** endpoints.
- Implemented fuzzy search and vector embeddings over **40,000+ records** achieving **sub-100ms** query latency; containerized with **Docker** and **PostgreSQL**.

ACHIEVEMENTS

- Secured 1st Place at **Environment Hackathon 2026**, winning Rs. 25,000 for developing an innovative technology-driven environmental solution.
- **Smart India Hackathon (SIH) 2024** — University Finalist; ranked **3rd** in the second round and placed in the **top 45 out of 730** university teams in the national final round.

EDUCATION

Bachelor of Engineering, Computer Science, Parul University

Expected May 2028