DEEPAK JHA

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ABOUT

Engineering student seeking an internship to apply and expand skills in software development, contributing to innovative, real-world technical solutions.

SKILLS

Languages:	Javascript, Typescript, Python, C++, HTML, CSS
Frameworks/Libraries:	React Native, Nodejs, Reactjs, Nextjs, MongoDB, Firebase, Numpy, pandas
Tech:	Git, Postman, Linux, Openstreetmap, QGIS, Docker, Latex

PROJECTS

CampusFind   (Try it here)

University campus map with **WebGPU** in **Next.js** and **MapLibre GL** with custom graph-based routing (**Dijkstra**), real-time geolocation tracking, **PWA support**, and data pipeline with **Supabase** database

- Built a GPU-accelerated map using **OpenStreetMap**, MapLibre GL, and GeoJSON.
- Implemented Dijkstra's algorithm with weighted paths for multi-route navigation.
- Integrated **device orientation sensors** for real-time navigation.
- Developed a **PWA** with **Next.js**, Supabase, and ImageKit CDN for offline and fast performance.

Medical emergency service app

An Android application designed to provide immediate assistance during medical emergencies, based on emergencies.

- built in **React Native** with **MapLibre** for map rendering and **Valhalla** for route generation, integrated with **Google Maps APIs**
- rendered dataset of **2L+ hospitals** across India with optimized performance

NamasteSetu   (Try it here)

Built an **AI-driven** dual medicine coding microservice for industry standard EMR systems in **Node.js** with embeddings for **semantic search** to bridge WHO traditional medicine with ICD-11 standards via 25+ RESTful APIs!

- implemented **RAG pipeline** and **fuzzy search** (**40k+ records ¡100ms**) for accurate diagnosis retrieval
- **containerized** modular backend/frontend with **Docker**, **PostgreSQL**, and **Artillery load testing**
- developed modern UI using **Tailwind** and **shadcn** components

The Hundred   (Try it here)

Built a full-stack application with NextAuth JWT authentication, Firebase Firestore real-time sync!

- integrated **NextAuth**, **Firebase**, and **Nodemailer** for seamless auth and credential management
- deployed fullstack app on **Vercel** with **Firestore-based data handling**
- built **heatmap analytics** widget for quick performance insights

ACHIEVEMENTS

- **Smart India Hackathon** (SIH) University Finalist. **Ranked 3rd in the second round** and in **top 45 in the final round** among **730 university teams**.
- University Campus Map has over **1k organic routes generated** in a week.

EDUCATION

Bachelors of Computer Science, Parul University   Expected 2028