

# DEEPAK JHA

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## ABOUT

Second-year engineering student seeking a software development internship with a focus on backend systems, distributed services, and applied algorithms.

## SKILLS

Languages:	Kotlin, JavaScript, TypeScript, Python, C++, HTML, CSS
Frameworks/Libraries:	React Native, Jetpack Compose, Node.js, React.js, Next.js, MongoDB, Firebase
Tech:	Git, Postman, Linux, OpenStreetMap, QGIS, Docker, LaTeX
Core CS:	Data Structures & Algorithms, Object-Oriented Programming, Operating Systems, Database Management Systems, Computer Networks

## EXPERIENCE

Backend / Android Intern	Nov 2025 – Dec 2025
Tinkering Hub, Parul University	

- Architected backend services for an AR/VR application to stream optimized imagery, execute an image-to-perspective pipeline, and evaluate **COLMAP** and **HLOC** for high-precision localization.
- Integrated an AR module using **ARCore**, **SceneView**, and **Kotlin** to anchor 3D navigation routes onto real-world surfaces.

## PROJECTS

CampusFind	( <a href="#">Try it here</a> )
Built a campus navigation system using <b>Next.js</b> , <b>MapLibre GL</b> , and <b>Supabase</b> , implementing GPU-accelerated maps, weighted <b>Dijkstra routing</b> , and sensor-driven orientation to enable real-time multi-route navigation with offline <b>PWA</b> support.	
<ul style="list-style-type: none"><li>• Deployed GPU-accelerated map rendering with <b>OpenStreetMap</b>, <b>MapLibre GL</b>, and <b>GeoJSON</b>.</li><li>• Designed weighted graph-based routing using <b>Dijkstra's algorithm</b> for optimal path selection.</li><li>• Integrated <b>device orientation sensors</b> to render real-time AR directional guidance.</li><li>• Delivered an offline-first <b>PWA</b> using <b>Next.js</b>, <b>Supabase</b>, and <b>ImageKit CDN</b>.</li></ul>	

### Medical Emergency Service App

Built an Android application to provide real-time assistance during medical emergencies through location-aware routing and hospital discovery.

- Developed in **React Native** using **MapLibre** for map rendering and **Valhalla** for route generation, integrated with **Google Maps APIs**.
- Rendered and queried a dataset of **200K+ hospitals** across India with optimized map performance and low-latency search.

### NamasteSetu

([Try it here](#))

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

- Implemented a **RAG pipeline** with **fuzzy search**, enabling accurate diagnosis retrieval across **40K+ records** with **sub-100ms latency**.
- Containerized a modular backend and frontend using **Docker** and **PostgreSQL**, and validated performance through **Artillery load testing**.
- Designed a modern, responsive UI using **Tailwind CSS** and **shadcn/ui** components.

## ACHIEVEMENTS

- **Smart India Hackathon (SIH)** University Finalist; ranked **3rd** in the second round and placed in the **top 45** of the final round among **730** university teams.

## EDUCATION

Bachelors of Computer Science, Parul University

Expected 2028