

Ojas Sharma

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EDUCATION

SRM Institute of Science and technology

Bachelor of Technology in Computer Science and Engineering

2024 – 2028

PROJECTS

AtlasForge — Android Navigation App

Kotlin, osmdroid, Android studio

- Built a fully offline GPS navigation app leveraging GraphHopper to parse OSM .pbk map files and construct an in-memory road network graph for shortest-path routing with no internet dependency.
- Integrated osmdroid for real-time map rendering with polyline overlays and turn-by-turn instruction generation from bearing deltas at each waypoint.
- Achieved sub-second routing for city-scale maps entirely on-device using Google Play Services for live location and OkHttp3 for any supplementary network calls.

Pavo — Education Counseling Platform

Live

Next.js, Spring Boot, TypeScript, Java, Docker

- Developed a full-stack web application helping students discover colleges, career paths, and scholarships across India, built for a college hackathon
- Engineered a Spring Boot REST API with a clean N-tier architecture (Controller → Manager → DAO → DataStore) designed to seamlessly swap in a real database without touching business logic
- Built an interactive Next.js 14 frontend with real-time search, multi-filter, and sort across datasets fetched from the backend via environment-aware API calls
- Containerized the backend with a multi-stage Dockerfile (Maven build + slim JRE runtime) and deployed it on Render; deployed the frontend on Vercel

BlockHarvest

Live

Rust, Anchor, Solana, Next.js, Supabase, PostgreSQL

- Built a full-stack decentralized insurance dApp on Solana Devnet, allowing farmers to register, pay 0.1 SOL premiums, and file claims — all enforced by an Anchor smart contract with immutable on-chain state
- Designed a PDA-based account model (FarmerAccount, Vault) using seed-derived addresses so no central party can alter payment records or intercept funds
- Integrated Phantom wallet via Solana Wallet Adapter with a hydration-safe Next.js 15 provider, and persisted farmer profiles in Supabase (PostgreSQL) for fast reads alongside on-chain state
- Implemented a 4-instruction program register farmer, pay premium, file claim, approve claim with admin-gated claim approval that atomically releases SOL from the vault PDA back to the farmer's wallet

ACHIEVEMENTS & RESPONSIBILITIES

IDEATHON 3.0 – Secured **3rd place** in an Inter-College Hackathon with 35+ teams.

Smart India Hackathon (SIH) – Qualified College Selection Round.

Tech Lead – Rangeen Pixels, SRM IST

- Designing club website from scratch, managing forms, tooling and internal operations.

Tech Member – ISTE

- Website maintenance, built CMS from scratch, co-organized hackathons and tech events.

Tech Member – Genesis SRMIST

- Delivered website improvements and resolved CMS bugs for the Web3 club.

Tech Member – AEGIS

- Contributing to website development for the cybersecurity club.

TECHNICAL SKILLS

Languages: Java, Kotlin, C/C++, SQL (Postgres), JavaScript, HTML/CSS

Frameworks: Spring Boot, React, Next.js, Node.js, JUnit, Jetpack Compose

Developer Tools: Git, Docker, AWS, Android Studio, IntelliJ, Eclipse, Maven

Libraries: osmdroid, GraphHopper, OkHttp3, Solana Wallet Adapter