

Swapnil Sharma

swapnilsharma806@gmail.com | +91 7733003569 | [LinkedIn](#) | [Github](#)

Software Developer | Web & Mobile Applications

Full-stack developer specializing in Next.js, React Native, and Node.js with practical experience in web and mobile applications.

EDUCATION

NMAM Institute of Technology, Karnataka | B.E. in Electronics and Communication

December 2021 - 2025

TECHNICAL SKILLS

- **Languages:** JavaScript/TypeScript, Java
- **Frontend:** React Native, Next.js, React.js
- **Backend:** Node.js, REST APIs, Prisma ORM
- **Databases:** PostgreSQL, MySQL, Firestore
- **Cloud:** Firebase, Supabase, Vercel, Docker, Linux
- **Tools:** Git, Postman, Swagger

EXPERIENCE

Skyroot Marktech | Mobile App Developer Intern

March 2025 - Present | Pune

- Collaborated in an agile team to develop a cross-platform school operations app, actively contributing to sprint planning, code reviews, and testing.
- Implemented secure authentication, robust session management, and integrated RESTful APIs for attendance, schedules, tests, and notices using Redux for state management, enabled real-time push notifications via OneSignal.
- Enhanced mobile performance and user experience by building reusable UI components and optimizing features such as debounced search.

Experimind Labs | Product Development Intern

June 2024 - Feb 2025 | NMAMIT, Udupi

- Developed full-stack web & mobile apps in a linux environment using Next.js, Node.js, and React Native.
- Built IoT-enabled remote control apps integrating ESP32/Raspberry Pi with React Native & web via MQTT & TCP.
- Configured and managed a Linux-based deployment environment for backend services using Nginx & Docker.

Projects

Virtual AI Inventory

[GitHub: <https://github.com/swapsticated/exp-inventory>]

- Built a collaborative inventory management platform with real-time synchronization using Pusher, enabling instant updates across multiple clients with optimistic UI updates, reducing perceived latency.
- Designed an audit logging system that tracks all inventory changes with user attribution, timestamps, and editable remarks, improving accountability and traceability.
- Tech Stack: Next.js, Node.js, Prisma ORM, PostgreSQL, NextAuth, Pusher.js

Employee Management System

[GitHub: <https://github.com/swapsticated/HMS>]

- Built a role-based HRMS with employee CRUD, attendance, leave tracking, and performance monitoring
- Designed intuitive UIs using TailwindCSS, enhancing HR workflow usability across web modules
- Secured the platform with JWT-based auth and Prisma-powered APIs on a PostgreSQL backend
- Tech Stack: Next.js, TailwindCSS, Node.js, Prisma ORM, PostgreSQL, JWT

Adaptive Water Management System

- Developed a full-stack IoT system enabling real-time monitoring and control of 20+ ESP32 devices over MQTT.
- Engineered a React Native app and admin dashboard (Next.js) for remote device control and usage analytics
- Built a Fastify + Mosquitto MQTT pipeline for bidirectional ESP32 communication
- Integrated Firestore for live sensor data sync across mobile and web interfaces
- Tech Stack: React Native, Next.js, Fastify, Firestore, MQTT (Mosquitto/HiveMQ),

Publications

"Secured Homomorphic Encryption and Authentication for Healthcare",
International Conference on Recent Advances in Science and Engineering Technology (ICRASET), IEEE Xplore, Nov 2024.
[DOI: 10.1109/ICRASET63057.2024.10895758]