

VIPUL SHARMA

sharmavipul99999@gmail.com | +91-8091788672 | [LinkedIn](#)

MOBILE ENGINEER (REACT NATIVE)

Cross-Platform Mobile Applications | Performance | Security | Offline-First Systems

Mobile Engineer with 3+ years of experience building and owning production-grade React Native applications at scale. Experienced in **React Native, TypeScript, Expo, Redux Toolkit, SQLite, secure authentication, offline-first architecture, BLE integrations, REST APIs, and third-party SDKs**. Proven track record delivering production applications supporting **10k+ daily active users and 30k+ users during high-volume campus events**, with strong ownership across architecture, development, debugging, performance optimization, security, and production monitoring.

EXPERIENCE

React Native Developer | C3IHUB, Kanpur, India

Oct 2024 – Present

- Develop secure, cross-platform mobile applications using **React Native, JavaScript, TypeScript**, and **Expo**, focusing on scalable enterprise solutions.
- Development of **IITK App & Verifier**, integrating **Expo Secure Store** for encrypted data storage, **biometric authentication** (face/fingerprint), **DigiLocker API** for secure ID verification, and **Sentry.io** for real-time error tracking.
- Optimize app performance through code refactoring and debugging, reducing load times by 20% for critical features.
- Collaborate with designers, backend developers, and IIT Kanpur stakeholders to deliver responsive UI and seamless API integrations.

React Native Developer | DigiMantra Labs, Mohali, India

Mar 2023 – Oct 2024

- Built and maintained multiple cross-platform mobile and web applications using **React Native, JavaScript, TypeScript**, and **React.js**, delivering intuitive user interfaces for diverse clients.

- Led front-end development for **OSR Jobs**, a job-matching platform, implementing **Redux** for state management, **Stripe API** for payments, and **Tailwind CSS** for responsive design.
- Enhanced application performance through code optimization and troubleshooting, reducing crash rates by 15% across production apps.
- Collaborated with cross-functional teams to integrate APIs and third-party libraries, ensuring timely delivery of robust solutions.

PROJECTS

C3iHub Wallet – Verified degrees you can download and prove — fully offline.

- **Role:** Mobile Engineer
Tech: React Native · Expo · SQLite · TanStack Query · DigiLocker · Offline-first Architecture · Blockchain Credentials, Expo Notifications, Sentry.
- Built a **blockchain-backed credential wallet** enabling graduates to securely access, download, and cryptographically verify digital degrees and certificates **fully offline**.
- Designed an **offline-first credential architecture using Expo SQLite**, supporting local persistence and retrieval of credentials without network connectivity.
- Supported credential issuance across **IIT Kanpur (~3,500 students/year)**, **IIT Jodhpur (~2,000)**, **IIIT Lucknow (~2,500)** and other C3iHub-connected institutions.
- Implemented **SSL pinning, encrypted storage, DigiLocker integration, and secure credential synchronization** to protect sensitive identity and academic data.

IITK App – Digital Identity Management System

- **Role:** Mobile Engineer
Tech: React Native, Expo, TypeScript, Expo Secure Store, Biometric Auth, Signed QR, Expo Notifications, Sentry
- Built the primary mobile companion for IIT Kanpur's digital identity ecosystem, providing access to **blockchain-backed IDs, dependent credentials, degree documents, event passes, and campus notifications**.

- Implemented **cryptographically signed QR credentials** for trusted on-campus identity verification and event access, with secure local credential handling.
- Supported **10k+ daily active users and 30k+ users during major campus events**, requiring reliable authentication, notifications, and high-volume credential access.
- Implemented **biometric authentication, encrypted local storage, push notifications, and production crash monitoring** to improve security and application reliability.
-
-

IITK Access – Verify credentials and gate access in seconds.

- **Role:** Mobile Engineer
Tech: React Native CLI, JavaScript, Redux Toolkit, SQLite, BLE Scanner.
- Built a companion verifier application used at **campus gates and checkpoints** to authenticate IITK App users through QR-based credential verification.
- Implemented **online/offline credential verification**, enabling access checks to continue during network outages or limited connectivity.
- Integrated **BLE scanner hardware** with the mobile application for high-throughput campus access workflows.
- Designed verification flows to minimize exposure of sensitive identity information while maintaining **fast and trusted credential validation**.

Divya Kavach – Location-Based Spiritual Collectibles

Role: React Native Developer

Tech: React Native CLI · Mapbox · Redux Toolkit

- Developed a location-based mobile experience using **Mapbox** to enable users to discover and collect digital talismans at real-world hotspots.
- Implemented **map-based location experiences and collectible discovery flows**, integrating geolocation with the application's collection system.
- Built **collectible sets and rarity-tier mechanics**, managing collection state and user progression with Redux Toolkit.

- Implemented interactive experiences around **temple protection and prosperity collectibles**, combining location-based discovery with gamified digital collecting.

BabyPage – Baby Book & Pregnancy Journal

Role: React Native Developer

Tech: React Native CLI · Redux Toolkit · In-App Purchases

- Developed a mobile journaling application enabling parents to capture **pregnancy memories, milestones, photos, and keepsakes** through guided content flows.
- Implemented **guided milestone and pregnancy prompts** with Redux Toolkit for managing journal and user-generated content state.
- Integrated **in-app subscriptions and premium purchase flows** for BabyPage Plus, enabling access to premium designs and features.
- Contributed to a production application rated **4.5★ on the App Store across 4,000+ ratings**, supporting an established user base.

NEEMO – Family stories and Sing-Alongs

Role: React Native Developer

Tech: React Native · Redux · Media

- Developed a family-focused mobile application enabling parents, grandparents, and caregivers to create and share **interactive stories and nostalgic sing-along experiences**.
- Implemented **media-driven experiences** for audio and interactive content, optimizing the mobile UX for family and child-focused use cases.
- Used **Redux for application state management**, coordinating content, user interactions, and media-related state across the application.
- Contributed to a **kid-friendly, accessible mobile experience** designed to maintain family connections across geographic distance.

SKILLS

- **Frameworks & Languages:** React Native, React Native CLI, Expo, React.js, JavaScript, TypeScript
- **Tools & Technologies:** Redux, Tailwind CSS, Stripe API, Digi Locker API, Expo Secure Store, Expo Notifications, Biometric Authentication, QR Code Scanning, Sentry.io, Git
- **Practices:** UI/UX Design, API Integration, State Management, Debugging, Cross-Platform Development, App Store Deployment

EDUCATION

Bachelor of Technology – Computer Science & Engineering

Shoolini University, Himachal Pradesh

2019 – 2023

LANGUAGES

- English (Fluent), Hindi (Native)

INTERESTS

- Cricket, Badminton, Travel