

# ABHISHEK SHUKLA

Full Stack Developer | React Native | Node.js | Generative AI

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## Professional Summary

Full Stack Developer (MCA) with 6 months of professional experience building production mobile and web applications using React Native, React, Next.js, TypeScript, Node.js, PostgreSQL and MongoDB. Experienced in REST API design, offline-first mobile apps, and Generative AI features such as RAG, tool calling and LLM integration. Comfortable owning features end to end, from UI to database to deployment on Google Play and Vercel.

## Technical Skills

**Languages:** JavaScript, TypeScript, GO

**Frontend & Mobile:** React Native (Expo), React, Next.js, Redux, Zustand, Tailwind CSS

**Backend & Databases:** Node.js, Express.js, REST APIs, PostgreSQL, MongoDB, Firebase, JWT, WebSockets

**Generative AI:** LLM APIs (OpenAI, Anthropic, Gemini), RAG, pgvector, Function Calling, Prompt Engineering, Vercel AI SDK

**Tools & DevOps:** Git, GitHub Actions (CI/CD), Docker, EAS Build, Postman, Figma, Vercel

## Work Experience

### Full Stack Developer

Jan 2026 -- Jul 2026

*Riya Techno Services Pvt. Ltd.*

Patna, Bihar

- Delivered a hospital management platform end to end, including a Node.js/Express.js REST API, PostgreSQL data layer and a React Native mobile app for doctors, staff and administrators.
- Designed the database schema and REST endpoints with role-based access control (RBAC) and JWT authentication to secure patient records.
- Reduced patient registration time by redesigning the intake flow with client-side validation and server-side deduplication.
- Implemented offline-first sync between the mobile app and API, keeping core hospital modules functional without internet connectivity.
- Improved screen load times through API response optimisation, caching and asynchronous data loading.
- Converted Figma designs into a responsive Material Design 3 UI in collaboration with hospital staff and stakeholders.

## Projects

### Smart Inventory -- AI-Powered Inventory Platform

 GitHub

*TypeScript, React Native (Expo), Next.js, Node.js, PostgreSQL, pgvector, LLM APIs, Vercel AI SDK*

- Building a cross-platform stock-taking app in React Native (Expo) with a Next.js admin dashboard and a shared Node.js/Express.js API.
- Integrating a vision LLM for camera-based item recognition and receipt parsing to replace manual data entry.
- Implementing natural-language catalogue search (e.g. "items below reorder level from supplier X") using RAG over pgvector embeddings and tool calling.
- Deploying to Google Play and Vercel with GitHub Actions CI/CD, streaming LLM responses via the Vercel AI SDK.

### HTTP File Server -- Peer-to-Peer File Sharing App

 GitHub

*React Native (Expo), TypeScript, react-native-tcp-socket, WebSockets, Zustand*

- Developed a cross-platform app that runs an embedded HTTP server over local Wi-Fi, letting nearby devices browse and download files from any browser.
- Engineered reliable background transfers with resumable streams that recover from network drops.
- Built a real-time dashboard showing transfer speeds and connected devices using WebSockets and Zustand.
- Published to Google Play with EAS Build and improved transfer stability based on user reviews.

### Inventory Management System -- Offline-First Mobile App

 GitHub

*React Native (Expo), TypeScript, Expo SQLite, Expo Camera, React Query, Node.js*

- Engineered an offline-capable inventory app for large catalogues with background sync to a Node.js/Express.js API.
- Integrated barcode scanning with Expo Camera to replace manual entry and eliminate data-entry errors.
- Implemented batched sync with React Query and optimistic updates for fast, conflict-free synchronisation.
- Designed an indexed SQLite schema enabling instant search across the entire catalogue.

### Files Downloader -- Multi-threaded Download Manager

 GitHub

*React Native (Expo), TypeScript, Expo File System, Background Fetch*

- Built a download manager with parallel chunked downloads and pause/resume support for large files.
- Ensured Android 11+ and iOS compatibility with scoped storage and secure file handling.

## Education

### Galgotias University

Noida, India

*Master of Computer Applications (MCA)*

### L.S. College

Bihar, India

*Bachelor of Computer Applications (BCA)*

## Languages

English (Professional Proficiency), Hindi (Native)