

ROSHANI SAHU

Senior Software Engineer | React Native | React Js | Node Js

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Senior Software Engineer/ Full Stack Developer with 6+ years of experience building scalable mobile and web applications using React Native, React.js, TypeScript, JavaScript, and Node.js. Experienced in cross-platform development, REST/GraphQL APIs, real-time systems, AI-powered applications, performance optimization, offline-first architecture, and backend integrations.

Skilled in building end-to-end products including mobile applications, backend APIs, real-time communication systems, authentication workflows, and AI-assisted user experiences. Strong focus on scalable architecture, reusable component systems, clean code practices, and modern product engineering.

SKILLS

- **Mobile Application Development:** Native Android(Java/Kotlin), React Native(TypeScript/Javascript), Ionic (Angular/TypeScript), Flutter basics, cross-platform mobile UI and feature implementation.
- **Frontend Development:** React Js, TypeScript, JavaScript, Redux Toolkit, RTK Query, Tailwind CSS, Responsive UI development, Reusable component architecture.
- **Backend Development:** Node Js, Express JS, REST API development, API integration, Authentication workflows, Firebase, MongoDB basics, JSON, SQLite, Keystone.
- **Full Stack Development:** Frontend-backend integration, REST & GraphQL APIs, API lifecycle handling, Reusable component architecture, Offline-first patterns, CRUD application workflows.
- **Real-time and AI:** Socket.IO, Google Gemini AI, Apollo Client, WebSocket architecture.
- **Domain Exposure:** Healthcare, Transport/logistics, Mining and quarry, Real estate, Government, E-commerce, and Digital payments.
- **Application Architecture & Design:** MVVM, modular architecture, reusable component design, API integration, old architecture, new architecture, and offline-first patterns.
- **Backend & Data:** REST APIs, JSON, SQLite, Firebase Realtime Database, Firebase Authentication, Cloud Messaging, Storage, Microsoft Fabric.
- **UI & Styling:** Tailwind CSS, Figma, Miro, custom reusable components, responsive design
- **Cloud & Integrations:** Firebase (FCM, Auth, Storage, Crashlytics,), Stripe (NFC/card reader integration), Google Maps SDK, Facebook SDK, Agora SDK, third-party SDK integration, Accessibility (WCAG).
- **Tools & Platforms:** Android Studio, Xcode (as needed), Visual Studio Code, Cursor, Github Copilot, Antigravity, Git, Bitbucket, Jira, Confluence, CI/CD pipeline, Apple Store, Google Play store deployment,
- **AI Tools:** Cursor, Github Copilot, ChatGPT (GPT-4 & 5.5), Perplexity, Figma AI Plugins, N8N workflow, Hugging Face, Claude.
- **Quality & Collaboration:** Debugging, Unit testing (Jest, Detox and JUnit), Crash/issue analysis, Cross-functional collaboration with product, QA, and Design teams, code reviews, Agile/Scrum.

PROFESSIONAL EXPERIENCE (6.8 Years)

Techment Technology Pvt Ltd

Bhilai CG, India

Senior Software Engineer (6.2 Years)

July 2019 - Oct 2025

- Owned end-to-end delivery for multiple mobile products and coordinated with cross-functional teams (product, design, backend, QA) to plan releases, manage scope, and ensure on-time, high-quality launches.
- Collaborated with product, backend, QA, and design teams to deliver scalable, high-quality application features and production releases.
- Built reusable mobile component architectures, API integration layers, authentication workflows, and offline-first mobile experiences.
- Improved application performance and stability by proactively debugging critical issues, optimizing API calls and state management, and enhancing error handling and logging.
- Integrated REST and GraphQL APIs, payment systems, Firebase services, and third-party SDKs across healthcare, logistics, mining, government, and digital payment domains.
- Contributed to internal web-based tools and proof-of-concept applications using React Js and Node Js for working automation, frontend-backend integration, reusable UI development, and API-driven application workflows.

Online Medical Treatment Platform (React Native, TypeScript, Android, IOS)

Contributed to development and design of a multi-role medical app (Super Admin, Admin, Therapist, Family, Interpreter) across Android and iOS. Optimized UI for portrait mode, resolved critical production issues, and implemented features supporting remote medical treatment workflows.

- Integrated REST APIs using Axios for patient management, appointment workflows, authentication, and medical data handling.
- Implemented secure login and session management using JWT token-based authentication and authorized API requests.
- Worked extensively with React Native hooks such as useState, useEffect, useCallback, and custom hooks for reusable business logic and API handling.
- Widget design to approve or reject sessions by doctors.
- Ensured secure communication over HTTPS and managed secure token storage mechanisms.
- Performed extensive testing and debugging to maintain stable production releases.

Mining & Quarry Drill Management (React Native, TypeScript)

Developed core modules and UI for managing drilling operations and generating PDF drill reports in a cross-platform mobile app.

- Integrated REST APIs for drill data management, report generation, machine tracking, and synchronization workflows.
- Implemented POST APIs for operational data submission and offline-to-online synchronization processes.
- Developed offline-first functionality with local storage and data sync support for low-connectivity mining environments.

- Used React Native hooks and reusable custom hooks to manage API lifecycle, form validation, and state updates efficiently.
- Optimized performance and stability through improved API handling, retry mechanisms, and reusable component architecture.
- Collaborated with backend and QA teams to ensure reliable and scalable mobile workflows.

Government Industrial Management (React Native, JavaScript)

Designed and developed major modules for a government app to manage and track MoUs between the Department of Commerce & Industries of State and Industries.

- Integrated both REST APIs and GraphQL APIs for efficient project tracking and industrial data management.
- Used GraphQL queries and mutations for fetching and updating project-related information while reducing unnecessary data fetching.
- Managed API integration, response handling, caching strategies, and performance optimization for scalable mobile workflows.
- Implemented secure authentication flows and authorized API communication for protected government data access.
- Built reusable UI components aligned with government accessibility and design guidelines.
- Used React Native hooks and modular architecture practices for maintainable and scalable development.
- Developed features for real-time project status tracking and dashboard updates.

Digital Tipping Platform (Flutter, Android, iOS)

Developed and enhanced a cross-platform digital tipping solution enabling secure contactless payments across Android and iOS devices. Worked on NFC-based payment integrations, real-time notifications, and payment workflow optimization to improve reliability and user experience.

- Integrated Stripe M2 NFC card reader into Flutter application using Method Channels and Event Channels for native Android and iOS communication.
- Worked with platform-specific native modules for NFC payment handling, transaction status updates, and payment event communication where direct Flutter SDK support was unavailable.
- Built secure digital tipping and OTP-based authentication workflows between parent application and NFC-enabled payment modules.
- Developed reusable payment UI components and Firebase FCM-based real-time notification features.
- Improved payment reliability and user experience through enhanced error handling, debugging, and payment workflow optimization.
- Collaborated with backend, QA, and cross-functional teams to support production releases and platform stability.

Field Billing Ops App - Energy Logistics (Ionic, Angular/TypeScript)

Built and maintained a mobile application for digitizing petroleum delivery and billing operations. Contributed to workflow automation, operational tracking, and invoicing features that improved efficiency and streamlined field operations.

- Developed key modules for petroleum delivery workflows including route assignment, load management, and invoicing features.
- Digitized field billing operations, reducing billing cycle time by 30% and improving driver operational efficiency by 25%.
- Integrated REST APIs for load tracking, invoice management, and operational data synchronization.
- Streamlined load-to-invoice workflows, improving operational reliability and field data accuracy.
- Built responsive mobile UI components using Ionic and Angular/TypeScript for field operations teams.
- Collaborated with backend, QA, and operations teams to deliver scalable and maintainable mobile solutions.

Techment Technology Pvt Ltd

Bhilai CG, India

Software Engineering Intern (6 month Internship)

Jan 2019 - June 2019

- Developed native Android features using Java, Android SDK, XML, and Material Design components.
- Worked on REST API integration, JSON parsing, reusable UI components, and Activity lifecycle management. Contributed to debugging and testing.

Selected Web/Full Stack & Personal Projects

React Js + NodeJs POCs & Internal Projects

- Built proof-of-concept web applications using React.js, TypeScript, and Node.js/Express.
- Developed reusable frontend components, responsive dashboards, and authentication workflows.
- Created REST APIs and backend services for CRUD operations and data management workflows.
- Worked with Axios/fetch, React hooks, state management, and modular project structures.
- Explored MongoDB integration and backend deployment workflows.
- Implemented frontend-backend communication and API lifecycle handling for scalable application flows.

Podcast AI — AI-Powered Podcast Platform

React Native | Node.js | GraphQL | KeystoneJS | Gemini AI

- Built a full-stack AI-powered podcast platform with React Native frontend and KeystoneJS GraphQL backend architecture.
- Implemented personalized podcast recommendation workflows using Google Gemini AI based on user favorites and listening behavior.
- Developed scalable GraphQL APIs, relational content models, authentication workflows, and session-aware backend operations.
- Integrated Apollo Client, Zustand, and MMKV for optimized client-server state management and local persistence.
- Designed responsive mobile experiences including podcast discovery, media playback, favorites, and AI-assisted recommendations.

Whisper — Real-Time Messaging Platform

React Native | Bun | Express.js | MongoDB | Socket.IO

- Developed a full-stack real-time messaging platform with React Native mobile client and Bun + Express backend services.

- Implemented WebSocket-based live messaging, typing indicators, online presence tracking, and synchronized chat workflows using Socket.IO.
- Built scalable REST APIs, MongoDB/Mongoose data models, and Clerk-secured authentication for HTTP and WebSocket communication.
- Used TanStack Query, Zustand, and Sentry for scalable state management, caching, and production monitoring.
- Designed modular chat architecture supporting real-time rooms, conversation synchronization, and persistent messaging workflows.

Meal Mitra — Food Delivery Platform

React Native | TypeScript | Redux Toolkit | MMKV

- Developed a cross-platform food delivery application with restaurant discovery, menu browsing, cart management, and checkout workflows.
- Implemented scalable state management using Redux Toolkit with persistent storage using MMKV and redux-persist.
- Built reusable UI components, custom navigation flows, animated interactions, and responsive mobile layouts.
- Integrated Apollo Client, Zustand, and MMKV for optimized client-server state management and local persistence.
- Integrated REST-ready Axios architecture with interceptor support for scalable backend integration.

EDUCATION

MCA (Master of Computer Applications)

BIT CG in 2019 With 85.25%.

DURG, CG, India

July 2016 - June 2019

BCA (Bachelor of Computer Applications)

SPASC CG with 72.8%

Nawapara, CG, India

July 2013 - June 2016