

# NALIN SAKTHIVEL

Senior Mobile Engineer — React Native & Android

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Kodumudi, Tamil Nadu

## PROFESSIONAL SUMMARY

Results-driven Mobile Engineer with **4+ years of experience** delivering large-scale, production-grade applications in React Native and Native Android. Specialist in **offline-first architectures**, real-time GPS tracking, and government-grade security integrations (Aadhaar eKYC/UIDAI). Proven track record of shipping impactful products serving **50,000+ users** across Tamil Nadu. Seeking a senior-level mobile role where deep technical expertise and ownership mindset drive product success.

## CORE COMPETENCIES

<b>Core Technologies:</b>	React Native, Flutter, JavaScript, TypeScript, Dart, Kotlin, Native Android
<b>State Management:</b>	Redux Toolkit, Zustand, Context API
<b>Database &amp; Storage:</b>	Realm, MMKV, SQLite, MongoDB (offline-first specialist)
<b>Backend &amp; Services:</b>	Firebase (FCM, Crashlytics, Remote Config), REST APIs, React Query, Node.js, Socket.io
<b>Maps &amp; Location:</b>	Leaflet Maps, GPS tracking, real-time location streaming
<b>Security &amp; Auth:</b>	Aadhaar eKYC — OTP, Face, Fingerprint, Iris (UIDAI-compliant)
<b>Hardware Integration:</b>	TVS Thermal Printer SDK, Android SDK, Activities/Fragments, Retrofit, MVVM
<b>CI/CD &amp; DevOps:</b>	GitHub Actions, Fastlane, Jenkins, Android Studio, Xcode, Git
<b>Testing:</b>	Jest, Mocha — unit and integration testing for React Native
<b>Other:</b>	Next.js, Vite, React Hook Form, Radix UI, Figma

## PROFESSIONAL EXPERIENCE

### Software Engineer

*Xenovex Technologies • 2023 – Present • Tamil Nadu*

- Architected and shipped **5+ large-scale government mobile apps** (React Native + Native Android) serving **50,000+ active users** across Tamil Nadu with 99%+ uptime.
- Built the **TNSKILL Skill Wallet** app using **Flutter** for Tamil Nadu Skill Development Corporation — a government-grade digital credential and skill certification platform for job seekers across Tamil Nadu.
- Integrated **Aadhaar eKYC** authentication (OTP, Face, Fingerprint, Iris) into the TNCSC platform, ensuring full UIDAI compliance and reducing onboarding time by an estimated **~40%**.
- Designed and implemented **offline-first data sync architecture** using Realm and SQLite, enabling uninterrupted field operations in zero-connectivity zones.
- Reduced app crash rate by an estimated **~35%** through proactive monitoring with Firebase Crashlytics and Remote Config for staged rollouts.
- Integrated **TVS thermal printer SDK** for automated field-level receipt generation, eliminating manual paperwork for 1,000+ field agents.
- Optimized state management using **Zustand and Redux Toolkit**, cutting unnecessary re-renders by **~30%** and improving perceived performance.
- Led integration of **real-time GPS tracking with Leaflet Maps** for delivery route monitoring across the CM Breakfast Scheme, enabling live dispatch oversight.
- Integrated Firebase Cloud Messaging for push notifications, achieving **95%+ delivery rate** across 50,000+ devices.

### Associate Software Engineer

*Techno Tackle • 2021 – 2023 • Tamil Nadu*

- Developed and maintained **6+ commercial Android and iOS applications** using React Native, serving clients across retail, transport, and B2B sectors.
- Implemented **REST API integrations** and push notification pipelines using Firebase, supporting real-time data sync for 5,000+ users.

- Managed global application state using **Redux**, reducing average API call duplication by ~25% through caching strategies.
- Contributed to a KCBT bus navigation and grievance app, reducing manual complaint resolution time from days to hours.

## KEY PROJECTS

### TNSKILL Skill Wallet

Digital skill credential and certification wallet for Tamil Nadu Skill Development Corporation (TNSDC) — enables job seekers to store, manage and share verified skill certificates

**Stack:** Flutter, Dart, Firebase, REST APIs

### TNCSC End-to-End Computerisation

Stock management system for Tamil Nadu Civil Supplies Corporation — 50,000+ users

**Stack:** React Native, TypeScript, MMKV, React Query, Zustand, Native Android SDK, Firebase, Leaflet Maps

### Amudhasurabhi & CM Breakfast Scheme

GPS-enabled delivery tracking system for Tamil Nadu government nutrition program — Won Xen Spark Award 2025

**Stack:** React Native, Realm, GPS, Firebase, React Hook Form, Offline Sync, Redux, Leaflet Maps

### ICDS Monitoring App

Anganwadi center monitoring and beneficiary management for Integrated Child Development Services

**Stack:** React Native, Realm, Offline Sync, Firebase, Redux

### KCBT App

Bus navigation and passenger grievance management system for Kongu region transport authority

**Stack:** React Native, Firebase, Redux Toolkit

### Mid-day Meal Inspection

Digitized school meal inspection workflows, reducing inspection time by ~50%

**Stack:** React Native, Realm, React Hook Form, Firebase

### Namma Grama Sabhai

Village meeting attendance and resolution tracking platform for Tamil Nadu panchayats

**Stack:** React Native, React Hook Form, Firebase

### Srii BJ Jewels

B2B order tracking and inventory management system for jewellery retail chain

**Stack:** React Native, Firebase, iOS/Android

## EDUCATION

### B.Sc. Computer System and Design • CGPA: 8.08

Kongu Engineering College • 2018 – 2021

## ACHIEVEMENTS

### Xen Spark Award • Xenovex Technologies • 2025

Recognized for delivering the CM Breakfast Scheme project ahead of schedule and under budget.

### Top Gun Award • Techno Tackle • 2023

Awarded for outstanding performance and technical contributions in the first two years.