

YADU C RAVINDRAN

Staff Engineer | React Native | React.js | Node.js | AWS

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PROFESSIONAL SUMMARY

Staff Engineer with 11+ years of experience building production-grade React Native and React.js platforms for enterprise retail operations. Deep expertise in offline-first mobile architecture, event-driven distributed systems (Kafka, MongoDB), and Node.js backend services. Proven track record leading architecture across mobile, web, and cloud infrastructure on AWS, owning CI/CD pipelines, and driving cross-team technical decisions as a member of the Architecture Review Board. Delivered scalable applications used by thousands of retail store operators globally.

TECHNICAL SKILLS

Mobile / Frontend	React Native (iOS & Android), React.js, JavaScript (ES6+), TypeScript, Android (Kotlin, Java)
Backend	Node.js, REST APIs, Express.js, Event-Driven Architecture, Microservices
Data & Messaging	Kafka, MongoDB, MongoDB Change Streams, Real-time Sync, Offline-First Data
Cloud & DevOps	AWS (Lambda, EC2, S3, CloudWatch), Docker, Containerisation, Jenkins, CI/CD Pipelines
Architecture	System Design, Distributed Systems, Mobile Platform Architecture, ARB Governance
Hardware Integration	BBPOS Payment Devices, Barcode Scanners, Brother Printers, Device Provisioning

PROFESSIONAL EXPERIENCE

Staff Engineer | 7-Eleven

Jul 2022 – Present
Bangalore, India

React Native Platform & Mobile Architecture

- Architected and led development of React Native mobile platform powering core 7-Eleven store operations including checkout, inventory management, and device lifecycle — deployed across global store networks.
- Built offline-first React Native architecture using local persistence and background synchronisation, ensuring store applications remain fully operational during network outages with zero data loss.
- Designed bi-directional event synchronisation system using MongoDB Change Streams and Kafka to reliably sync React Native store apps with enterprise backend platforms in real time.
- Integrated React Native apps with retail hardware including BBPOS payment terminals, barcode scanners, and Brother printers, enabling seamless in-store workflows.

Applications Delivered (React Native / React.js)

- Mobile Checkout — React Native employee-assisted checkout app with payment device integration.
- Scanner PRO — React Native inventory and stock management platform with offline capability.
- Device Provisioning System — React Native app for onboarding and lifecycle management of store hardware.
- Secure Employee Launcher — React Native authentication and application access platform.

Node.js Backend, AWS & DevOps

- Designed and built Node.js backend services and REST APIs supporting real-time store operations and event-driven data pipelines via Kafka and MongoDB.
- Reduced AWS infrastructure costs by migrating Lambda workloads to containerised services (Docker on AWS ECS), improving compute efficiency and reducing cold-start latency.
- Built and maintained CI/CD pipelines using Jenkins and AWS for automated build, test, and deployment across development, QA, and production environments — significantly reducing release cycle time.

- Member of the Architecture Review Board (ARB), providing cross-team governance on system design, API contracts, and mobile architecture standards.
- Mentored engineers across teams and established best practices for React Native architecture, Node.js API design, and CI/CD reliability.

Team Lead (React Native / Frontend) | Opentrends Technologies

Nov 2016 – Jun 2022
Thrissur, India

- Led and mentored a team of 6 engineers delivering React Native and web applications for international clients including Carrefour, Bonpreu, Imagin Bank, Nomo Bank, and T-Mobilitat.
- Built production React Native and React.js applications across retail and fintech domains serving thousands of end users.
- Established CI/CD workflows and code review standards that improved release quality and team velocity.
- Received Employee of the Month (4x) and Employee of the Year recognition for delivery excellence.

Software Engineer (Android / iOS) | Entero Software Solutions

Dec 2015 – Oct 2016
Thrissur, India

- Developed native Android (Kotlin/Java) and React Native mobile applications for enterprise clients with REST API integrations.

Software Engineer (Android / iOS) | Webandcrafts

Sep 2014 – Nov 2015
Thrissur, India

- Built native Android and iOS mobile applications and integrated backend APIs for client projects.

KEY PROJECTS

Offline-First React Native Data Platform

Designed a shared React Native data layer for 7-Eleven store apps enabling full offline operation with local persistence (SQLite/AsyncStorage) and automatic Kafka-driven background synchronisation when connectivity is restored.

Event-Driven Sync Architecture (Kafka + MongoDB + Node.js)

Built bi-directional data synchronisation between React Native store applications and enterprise systems using MongoDB Change Streams, Kafka topics, and Node.js consumer services — enabling real-time inventory and transaction consistency.

AWS Cost Optimisation — Lambda to Containers Migration

Migrated AWS Lambda-based workloads to containerised Node.js services on AWS ECS, reducing infrastructure costs and eliminating cold-start performance issues at scale.

Enterprise CI/CD Pipeline (Jenkins + AWS)

Designed automated Jenkins CI/CD pipelines for React Native and Node.js services, enabling consistent builds, automated testing, and reliable deployment to AWS across all environments.

EDUCATION

B.Tech – Computer Science

Federal Institute of Science and Technology

2014

ACHIEVEMENTS

- Spot Award (2x) — 7-Eleven, for exceptional contributions to the React Native mobile platform.
- Employee of the Month (4x) — Opentrends Technologies.
- Employee of the Year — Opentrends Technologies.