

Rajan Maharjan

Senior React Native Engineer | Mobile Architect | TypeScript, iOS/Android, AI-Assisted Products
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Senior Mobile Engineer with 9+ years of experience architecting and shipping high-quality mobile applications across IoT, clean energy, fintech, and consumer products. Deep expertise in React Native New Architecture (Fabric, TurboModules, JSI, Hermes), native Swift/Kotlin integration, performance profiling, and CI/CD automation. Proven track record of owning mobile platform strategy, defining engineering standards, mentoring engineers, and delivering AI-assisted, payment-enabled, and real-time mobile experiences at scale. Recognized for bridging product, backend, and mobile teams to drive reliable, high-impact releases.

WORK EXPERIENCE

Solo Technologies, Inc.

Senior Mobile Engineer

July 2025 – Present

Seattle, WA

- Leading mobile architecture and a multi-phase React Native platform modernization, including native iOS integration with Swift and Xcode for performance-critical modules and long-term maintainability.
- Owning mobile build systems, dependency alignment, and release readiness across modern Android and iOS toolchains, improving build stability, performance, and developer velocity.
- Designing and implementing AI-assisted customer workflows using real-time streaming (Server-Sent Events), enabling agent-driven scheduling and decision-support experiences that replace manual workflows.
- Leveraging AI-assisted engineering tools such as Claude Code, Cursor, and GitHub Copilot to accelerate issue resolution, PR drafting, refactoring, documentation, test creation, and React Native component prototyping while maintaining code quality and architectural standards.
- Architecting and maintaining subscription and payment systems integrated with Stripe, Firebase, Braze, and AppsFlyer, supporting fraud detection and seamless Apple Pay and Google Pay experiences.
- Investigating and resolving complex iOS and Android production issues using Xcode Instruments and Android Profiler, improving crash stability, runtime performance, and production reliability under real-world conditions.
- Partnering cross-functionally with backend, QA, and product teams to improve release reliability, reduce crashes, and optimize CI/CD workflows, strengthening build success rates and accelerating delivery.
- Implementing mobile observability, background-safe location tracking, and mileage computation with careful attention to crash monitoring, battery optimization, analytics, and platform compliance.
- Driving long-term mobile engineering strategy by mentoring engineers on performance tuning, Fastlane, GitHub CI/CD automation, and modern React Native best practices.

SunStrong Management LLC (Post-Bankruptcy / Acquired SunPower)

Senior Software Engineer

Oct 2024 – July 2025

Austin, TX

- Led post-acquisition platform transition efforts following SunPower's restructuring, supporting infrastructure migration, rebranding, and backend integrations while maintaining production continuity and user trust.
- Coordinated with DevOps, security, and backend teams to reconfigure cloud services, access controls, and identity management in alignment with new organizational policies and compliance requirements.
- Managed transition risk by ensuring seamless user authentication, data integrity, and minimal disruption to production systems during rebranding and ownership changes.
- Migrated analytics, monitoring, and third-party integrations to preserve observability, reporting continuity, and business insights throughout the transition.
- Identified integration gaps, mitigated production risk, and stabilized critical workflows to strengthen platform reliability during organizational change.

- Led development of React Native commissioning and monitoring applications for customers, dealers, and installation partners, streamlining workflows for 1,000+ users and reducing onboarding time by 40% through UX and platform optimization.
- Enabled direct device setup and configuration through the ProConnect app and delivered ongoing system visibility and control through the mySunPower consumer application.
- Improved overall system efficiency by 20% through optimized IoT commissioning flows and reliable integration with Bluetooth Low Energy (BLE) and Wi-Fi-connected devices.
- Reduced deployment time by 30% and CI billing minutes by 25% by implementing automated testing and optimizing GitHub Actions-based CI/CD pipelines.
- Designed and implemented a high-performance multi-QR/barcode scanning component in React Native, saving approximately \$150K annually in operational costs.
- Partnered closely with firmware engineers to resolve device-side issues, reducing commissioning time by 15% and modernizing the firmware update workflow for greater reliability.
- Designed resilient mobile workflows for intermittent connectivity and device latency, ensuring reliable commissioning and monitoring in field environments.
- Stabilized and modernized legacy Cordova applications by upgrading outdated dependencies, improving performance and reducing maintenance effort by 25%.

Kent State University
Graduate Student Developer (Full Scholarship, NSF-Funded Research)

Jan 2021 – May 2022
Kent, OH

- Selected as a Graduate Student Developer on full scholarship, contributing to NSF-funded research projects focused on building impactful web and mobile applications for STEM teaching and learning.
- Developed full-stack web and mobile applications from the ground up, collaborating with faculty researchers to translate educational research goals into scalable, production-quality software.
- Contributed to the XRi (Extended Reality for Instruction) project, an NSF-funded platform designed to deliver immersive educational experiences using extended reality technologies.
- Built interactive learning experiences leveraging React.js, React Native, Python, and Babylon.js, supporting experimental and immersive instructional use cases.
- Partnered with interdisciplinary research teams to prototype, iterate, and validate educational technology solutions in real academic environments.

BitsBeat IT Solution
Sr. Software Engineer - Oyster Financial, Inc (Embedded / Full-Time Contract)

Apr 2019 – Jan 2021
Lalitpur, Nepal

- Worked as a full-time embedded contractor with Oyster Financial, Inc, developing a financial platform serving freelancers, startups, and SMBs in Mexico.
- Served as Lead Developer for the Credit Frontend team (5 engineers), collaborating with product and leadership to define requirements, plan delivery, and ship customer-facing web and mobile applications.
- Led development of Oyster's Credit Web App and Mobile App, aligning technical execution with business objectives and regulatory requirements.
- Partnered closely with design teams to implement high-quality, user-centered UI/UX and with backend engineers to integrate APIs, ensuring performance, reliability, and data consistency.
- Improved engineering quality through code reviews, technical guidance, and cross-team collaboration across product, design, and backend teams.

BitsBeat IT Solution
Sr. React Native Developer

Dec 2018 – Apr 2019
Lalitpur, Nepal

- Mentored junior developers, led code reviews, and maintained high standards for code quality and delivery discipline.

- Built React Native applications such as XcelTrip, delivering clean, efficient code and pixel-perfect user interfaces with smooth animations and transitions.
- Managed app preparation and release processes for the Apple App Store and Google Play Store while leading a team of React Native developers. This involved participating in two-week sprints, daily standups, and sprint retrospectives.
- Actively contributed to the React Native developer community by sharing knowledge and providing support to peers.

Peace Nepal DOT Com

Sr. JavaScript Developer

Dec 2016 – Sep 2018

Lalitpur, Nepal

- Developed healthcare applications for U.S.-based clients supporting on-demand house calls and clinical scheduling workflows, collaborating closely with senior engineers and stakeholders across time zones.
- Built and operated cloud infrastructure on AWS, including EC2, S3, ELB, and IAM, implementing autoscaling strategies, CloudWatch monitoring, and secure server configurations on Ubuntu and Amazon Linux.
- Designed and maintained a cryptocurrency auto-trading platform, gaining hands-on experience with crypto market mechanics while mentoring junior developers and establishing best practices for reliability and maintainability.

Spark Technology

JavaScript Developer

Sep 2015 – Dec 2016

Kathmandu, Nepal

- Began software development career by building web applications from the ground up with AngularJS and Node.js, owning delivery from implementation through AWS (EC2) deployment.
- Collaborated with designers and junior developers to build intuitive web interfaces and interactive workflows integrating IoT devices and GPS-based data.
- Built real-time GPS tracking systems for ambulance and school transportation platforms, improving route visibility, safety monitoring, and operational awareness for back-office teams.
- Participated in client-facing meetings with government and private-sector stakeholders to help define project scope, requirements, and delivery expectations.

Oval Analytics

Database Engineer

Nov 2014 – Sep 2015

Kathmandu, Nepal

- Designed and maintained a data mart platform using Pentaho BI and PL/SQL to support data integration, transformation, and performance optimization for analytics workflows.
- Built and automated data ingestion pipelines using SQL*Loader, stored procedures, and UNIX shell scripts, improving reporting reliability and operational efficiency.
- Enhanced in-house BI tools through front-end and back-end development in Python, enabling deeper analysis and better internal decision-making.

EDUCATION

Doctor of Business Administration (DBA), In Progress

Westcliff University

Irvine, CA

Master of Science in Computer Science

Kent State University

May 2022

Kent, OH

Bachelor of Science in Computer Engineering

Kantipur Engineering College; Affiliated to Institute of Engineering (IOE)

Dec 2014

Lalitpur, Nepal

SKILLS, CERTIFICATIONS & INTERESTS

▪ Technical Skills:

Mobile & Frontend Platforms

- React Native, React, TypeScript, JavaScript (ES6+), Next.js,

Mobile Architecture & Performance

- Swift, Kotlin, Xcode, React Native New Architecture (Fabric, TurboModules, JSI), Hermes, native module integration, React Navigation, performance profiling, accessibility (a11y / WCAG), efficient state management, Redux Toolkit, Context API, Zustand, MobX, MVVM, code splitting, lazy loading

AI-Assisted Engineering & Real-Time Systems

- Claude Code, Cursor, GitHub Copilot, AI-assisted development workflows, prompt engineering, OpenAI APIs, AI-assisted workflows, real-time streaming (Server-Sent Events), on-device ML (ML Kit), TensorFlow.js, RAG, vector databases, agentic workflows

Mobile Platform & Delivery

- Expo, EAS, OTA updates, deep linking, push notifications, A/B testing, feature flags (LaunchDarkly), app size optimization, bundle splitting

Backend & APIs

- Node.js, Express.js, Python, Django, Ruby on Rails, REST APIs, GraphQL

Cloud, DevOps & CI/CD

- AWS, Google Cloud, Docker, GitHub Actions, GitLab CI, Fastlane

Testing, Quality & Release

- Jest, React Native Testing Library (RNTL), Mocha, Maestro, Detox, E2E mobile flow automation, CI/CD-integrated test workflows, automated testing strategies, release validation

Payments & Product Infrastructure

- Stripe, Apple Pay, Google Pay, Firebase Analytics, Mixpanel, Braze, AppsFlyer

IoT & Device Integration

- Bluetooth Low Energy (BLE), GPS, Wi-Fi-connected devices

Data & Storage

- PostgreSQL, MySQL, MongoDB, MMKV, AsyncStorage, WatermelonDB (offline-first), SQLite

Security, Identity & Observability:

- OAuth, JWT, OWASP principles, IAM, secure credential management, certificate pinning, ProGuard/R8, secure storage, Sentry, Datadog, Crashlytics

▪ Leadership & Collaboration

- Technical leadership, mobile platform strategy, system design & architecture reviews, mentoring engineers, cross-functional & cross-org collaboration, Agile delivery, RFC/ADR authoring, translating product requirements into scalable technical solutions

▪ Interests

- Open-source, social-impact technology, AI products, and technical writing