

Alexander Su

Senior Software Engineer | Senior React Native Engineer

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PROFILE SUMMARY

Senior Software Engineer with 9 years of hands-on experience building and scaling mobile applications used by millions. Specialized in **React Native**, **TypeScript**, and **Node.js**, with a strong background in integrating real-time data, optimizing performance, and modernizing app architectures for iOS and Android.

Known for delivering stable, high-performing releases across complex ecosystems like **Yahoo**, **ChargePoint**, and **Walmart**, combining technical precision with practical problem-solving. Experienced in **BLE integrations**, **push notification systems**, and **AI-driven personalization**, while keeping codebases maintainable through modular design and type safety.

Comfortable working end-to-end—from building UI layers and managing app state to setting up **CI/CD pipelines**, automated testing, and Over-The-Air (OTA) updates. Experienced in agile environments where close coordination with backend engineers, designers, and product managers turns ideas into reliable, user-friendly mobile products.

Grounded in real engineering work, not theory—focused on building fast, stable apps that stand up in production and improve with each release.

PROFESSIONAL EXPERIENCE

Yahoo

Senior React Native Engineer

February 2025 - September 2025

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- Served as the **Senior React Native Engineer** leading modernization of Yahoo's mobile applications, focusing on high-performance, cross-platform development and alignment with Yahoo's global design and engineering standards using React Native, TypeScript, and Expo.
- Realized critical functionalities that included **migration to the new React Native architecture**, **AI-powered feature integration**, and optimization of performance to deliver native-quality experiences for Yahoo Mail, Finance, and News apps.
- Architected **type-safe native bindings with Codegen** and introduced **on-demand module loading** to optimize resource utilization across iOS and Android, while maintaining full compatibility with existing native SDKs.
- Delivered new user-facing functionalities including **AI-driven personalization engines** and **real-time data feeds**, integrating **GraphQL** and **REST APIs** across React Native and React Native for Web to unify the codebase.
- Built **real-time push notification functionality** using **Firebase Cloud Messaging (FCM)** and **Apple Push Notification Service (APNs)**, implementing background handlers, topic-based subscriptions, and in-app notification rendering for Yahoo Mail and Finance apps.
- Rebuilt critical UI layers using **React Native Reanimated 4** and **FlashList**, enabling high-efficiency rendering of data-heavy lists and achieving consistent 60+ FPS animations in production.
- Led the **migration from the legacy bridge system to the new JSI-based architecture**, implementing

- Fabric for concurrent UI rendering and TurboModules for on-demand native module loading**, achieving smoother animations and reduced app startup times using **Hermes**.
- Drove modernization of the codebase to **TypeScript and React Hooks**, adopting **Zustand and Redux** for lightweight state management, enforcing **ESLint and code review standards**, and improving code maintainability.
 - **Collaborated closely with backend engineers across Node.js and GraphQL services**, defining efficient data contracts, optimizing payload structures, and improving real-time API performance for high-traffic mobile endpoints.
 - **Cross-functional Collaboration with product managers and UI/UX designers** to define mobile requirements, refine interactive flows, and maintain visual and functional consistency with Yahoo's web platforms through shared design systems and Figma prototypes.
 - Established comprehensive **automated testing pipelines** using **Jest, Detox, and React Native Testing Library**, introducing integration and end-to-end test suites that enhanced reliability and reduced regression issues across major app releases.
 - Implemented a **CI/CD-integrated Over-The-Air (OTA) deployment system** using **EAS** to push hotfixes and updates instantly without App Store or Play Store review cycles.
 - Enhanced the developer and user experience by integrating **Datadog and Firebase Analytics** for real-time monitoring, collaborating with design and backend teams to maintain **WCAG 2.1 accessibility standards** and visual consistency across all Yahoo platforms.

ChargePoint

July 2023 – February 2025

Senior React Native Developer

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- Developed and enhanced **user-facing features** for the ChargePoint mobile app using **React Native, TypeScript, Expo, and Redux**, improving reliability and usability across iOS and Android platforms.
- Built **real-time station status visualization** for the map interface, introducing color-coded logic to display station availability and charger types (Level 2 AC / DC Fast Charge).
- Designed **predictive search and navigation components** integrated with **Google Maps, Apple Maps, and Waze**, streamlining EV station discovery and route planning.
- Collaborated with backend engineers across **Node.js and GraphQL APIs** to expand **in-app payment systems** with **Apple Pay, Google Pay, and PayPal**, and implemented secure **biometric authentication flows**.
- Partnered with product managers and designers to develop **community-driven features**, enabling users to post photos and tips for charging locations to improve user engagement.
- Engineered **BLE integration** using React Native modules like react-native-ble-plx to connect mobile devices to charging stations for setup, diagnostics, and maintenance within the installer app ecosystem.
- Built **cross-platform widgets** for iOS and Android home screens to show live charging status, nearest stations, and favorites at a glance.
- Refactored app **state management architecture** using **Redux Toolkit and Context API**, optimizing performance for large data lists and reducing memory usage.
- Enhanced **accessibility support** through screen reader optimizations and custom actions to meet inclusive design standards.
- Implemented **push notification features** using **Firebase Cloud Messaging (FCM)** to alert users about charging session updates, station availability, and account activity in real time.
- Contributed to **Fleet and Smart Home integrations**, developing UI components for fleet charging automation, energy tracking, and early-stage **V2X (Vehicle-to-Everything)** connectivity interfaces.

- Implemented **automated testing suites** using Jest and React Native Testing Library, achieving high coverage for UI, business logic, and BLE connectivity scenarios.
- Oversaw **CI/CD deployments** via Bitrise and Fastlane, automating build, testing, and release workflows to streamline delivery across App Store and Google Play.
- Worked in an **Agile development environment**, participating in sprint planning, code reviews, and daily stand-ups to deliver incremental features on schedule.
- Collaborated cross-functionally with **product managers, designers, and QA engineers** to translate business requirements into intuitive, high-performance mobile experiences.

Pear Therapeutics

Senior Mobile Developer

January 2021 – April 2023

Mobile Software Developer

April 2019 – December 2020

[app store\(RESET\)](#) | [app store\(RESET-O\)](#)

- **Developed mobile applications from scratch** (reSET, reSET-O, Somryst) using **React Native** and **native iOS/Android**, delivering FDA-cleared prescription digital therapeutics (PDTs) in a fast-moving startup environment.
- **Led end-to-end development** of patient-facing features, including cognitive behavioral therapy (CBT) modules, progress tracking, and personalized feedback systems — all aligned with HIPAA and FDA SaMD standards.
- **Collaborated cross-functionally** with backend, UX, and clinical teams to translate therapy protocols into engaging, secure mobile experiences that improved treatment adherence and outcomes.
- **Implemented secure data collection and transmission**, real-time monitoring dashboards, and push notifications to enhance engagement and clinical oversight.
- **Optimized app performance and reliability**, resolving bottlenecks across React Native and native layers, and maintaining compliance through rigorous QA and documentation for regulatory submissions.

Walmart eCommerce Global

Mobile Software Developer

August 2016 – April 2019

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- **Contributed to feature development** for large-scale **iOS and Android apps**, building and enhancing UI components, shopping flows, and location-based features that served millions of daily users.
- **Assisted in end-to-end implementation** of mobile features — from design and coding in **Swift, Objective-C, and Kotlin** to testing and deployment through Walmart's CI/CD pipelines.
- **Integrated REST and GraphQL APIs** to support dynamic content such as personalized recommendations, order tracking, and in-store pickup options.
- **Collaborated within Agile teams**, working closely with senior developers, designers, and product managers to translate business needs into scalable, user-friendly features and migrate native applications to React Native early version.
- **Debugged and optimized app performance**, resolved production issues, and improved reliability across multiple device types and OS versions.
- **Contributed to automated testing and code reviews**, helping maintain high code quality and consistent user experience across platforms.

SKILLS

- **Programming Languages:** JavaScript (ES6+), TypeScript, Swift, Kotlin, Objective-C
- **Frameworks & Libraries:** React Native, Expo, Node.js, Redux, Redux Toolkit, React, React Native for Web, GraphQL, RESTful APIs, Firebase, Jest, Detox, React Native Testing Library
- **Mobile Development:** iOS, Android, React Native (cross-platform), Native Modules, BLE Integration (react-native-ble-px), Push Notifications (FCM, APNs)
- **State Management:** Redux, Zustand, Context API, React Hooks
- **Performance Optimization:** Type-safe Native Bindings, Codegen, On-demand Module Loading, React Native Reanimated 4, FlashList, JSI-based architecture, Hermes, TurboModules
- **CI/CD & Automation:** Bitrise, Fastlane, EAS, Jest, CI/CD pipelines, Over-The-Air (OTA) updates
- **Tools & Technologies:** Git, GitHub, Bitbucket, Figma, Datadog, Firebase Analytics, WCAG 2.1 Accessibility
- **Cloud & Backend:** AWS, Firebase, Google Maps, Apple Maps, Waze, REST APIs, GraphQL, Node.js
- **Testing & Quality Assurance:** Unit Testing, Integration Testing, End-to-End Testing, Jest, Detox, Automated Testing Suites, CI/CD, Code Reviews
- **Agile Methodologies:** Sprint Planning, Code Reviews, Daily Stand-ups, Cross-functional Collaboration

EDUCATION

Bachelor of Science in Civil Engineering, University of California, Davis, 2013