

# Alexander Su

Senior Software Engineer | Senior React Native Engineer

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## PROFILE SUMMARY

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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

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### Yahoo

February 2025 - September 2025

*Senior React Native Engineer*

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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.
- Developed **offline functionality** using **Redux Persist and SQLite**, enabling users to access charging station information, track progress, and interact with key features even when the app is not connected to the internet.
- 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

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- **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-plx), 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

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