

Zeyu Cheng

(669) 263-7203

zeyu.cheng@outlook.com

SUMMARY

Software Engineer with 4+ years of experience building scalable web and mobile applications using React, Next.js, and React Native. Led multiple 0→1 product initiatives across healthcare logistics, patient booking, and operational systems, including a global scheduling platform that generated over \$1M in annual revenue. Experienced in frontend architecture, performance optimization, and cross-functional product development from concept to production.

TECHNICAL SKILLS

Languages: JavaScript (ES2022+), TypeScript, Java, HTML5, CSS3

Frontend: React, Next.js, React Native (Expo), Redux Toolkit (RTK Query), TanStack Table

Backend & APIs: Node.js, REST APIs, JWT Authentication

Mobile: Background Location Tracking, Push Notifications, Deep Linking, Camera/QR APIs

Testing & CI/CD: Jest, React Native Testing Library (RNTL), Playwright (E2E), Detox (E2E), GitHub Actions

Performance & Tooling: Webpack, Code-Splitting, Lazy Loading, Lighthouse CI, Bundle Optimization

Cloud & Storage: AWS (S3), Google Cloud Platform (GCP), MySQL, MongoDB

EXPERIENCE

Zymebalanz LLC | Santa Clara, CA | **Software Engineer**

May 2022 - present

Owned frontend architecture and cross-platform product development across a three-platform healthcare logistics ecosystem serving patients, healthcare providers, and internal operations teams.

Phlebotomist Field App – React Native / Expo

- Rebuilt a legacy React Native prototype into a modular mobile architecture with reusable components, improving maintainability and accelerating feature development across field operations workflows.
- Redesigned appointment scheduling data fetching from bulk-loading to per-day queries, significantly reducing calendar latency, memory usage, and unnecessary API traffic.
- Transformed legacy phone-based workflows into a real-time operational tracking platform adopted by 20+ healthcare service providers and 100+ field professionals, reducing operational cycle times by 50%.
- Consolidated appointment management, logistics scanning, specimen handling, and service status updates into a unified mobile workflow, improving operational visibility and reducing manual coordination.

Global Patient Booking Platform (0→1) – Next.js / React / Redux Toolkit

- Led the 0→1 development of a global patient booking platform supporting multi-region scheduling and concierge coordination, generating over \$1M in annual revenue and becoming the company's primary patient acquisition channel.

- Built end-to-end onboarding, scheduling, payment, and fulfillment workflows, enabling patients to independently complete the service lifecycle with minimal operational intervention.
- Implemented Stripe/PayPal integrations, SMS authentication, compliance workflows, and self-service scheduling features to improve conversion and reduce booking friction.
- Built real-time appointment tracking and live field-service location experiences, providing patients visibility into service progress and improving customer experience.
- Modernized frontend data architecture by migrating legacy Redux/Axios workflows to RTK Query, reducing boilerplate and minimizing redundant API traffic.

Internal Billing & Operations Platform (0→1) – Next.js / React

- Led the 0→1 development of an internal billing and operations platform supporting financial workflows, payout management, and enterprise reporting across internal teams and external service providers.
- Built high-performance financial dashboards and data grids using TanStack Table with server-side pagination, filtering, and sorting across 10K+ transaction records.
- Designed a multi-tenant RBAC permission system supporting finance teams, operations managers, and external vendor organizations while preventing cross-role data exposure.
- Developed auditing, transaction adjustment, and financial analysis workflows that centralized operational finance processes and eliminated manual spreadsheet-based reporting.
- Automated reporting and archival workflows through secure XLSX/CSV exports and client-side PDF generation, eliminating manual report preparation for finance and operations teams.

Testing Infrastructure & Developer Productivity

- Established a unified testing strategy across web and mobile applications using Jest, React Native Testing Library, and Detox, achieving 90%+ automated test coverage across critical business workflows.
- Developed 15+ end-to-end test scenarios covering appointment management, scheduling, payments, logistics operations, and compliance workflows, improving product reliability and release confidence.
- Built GitHub Actions CI/CD pipelines on self-hosted runners with automated test gating for pull requests and deployments, reducing production regressions by 50% and supporting reliable weekly production releases.

EDUCATION & CERTIFICATIONS

B.S. Software Engineering – San Jose State University

May 2021

Google UX Design Professional Certificate – Google / Coursera

Aug 2023