

JONATHAN GAN

React Native & Mobile Engineer

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PROFESSIONAL PROFILE

Mobile engineer with 7+ years of experience and 5+ years shipping production React Native systems. Expert in iOS/Android/watchOS delivery with native Kotlin/Swift modules, on-device AI, and hardware integrations. Proven track record in fintech, healthcare, and media, moving prototypes to App Store production with robust CI/CD and offline-first architectures.

TECHNICAL SKILLS

Mobile & Native

- React Native, Expo, Expo Router, TypeScript, TailwindCSS
- iOS: Swift/SwiftUI, HealthKit, Core ML, Combine
- Android: Kotlin, Jetpack Compose, Room
- watchOS, Xcode, EAS, App Store Connect

AI, Data & Cloud

- On-device LLM (ExecuTorch, Llama 3.2), TensorFlow Lite, Core ML
- GraphQL, Node.js, PostgreSQL, MongoDB
- AWS, Cloudflare Workers, Firebase, Vercel
- CI/CD: GitHub Actions, Jenkins, EAS

KEY ACHIEVEMENTS

- Published multiple production apps and open-source modules as sole contributor, including App Store and hardware-integrated releases.
- Owns end-to-end delivery: architecture, implementation, testing, signing, deployment, monitoring, and post-release iteration.
- Built privacy-first and offline-first mobile workflows for healthcare and AI applications.
- Designed native device integrations: camera control, streaming pipelines, BLE workflows, and camera/media interoperability.

PROFESSIONAL EXPERIENCE

Freelance Software Engineer — Mobile & Full-Stack

Remote | Jul 2024 – Present

Designed and shipped client and independent mobile products from concept through production using React Native and Expo, owning end-to-end delivery across mobile UI, backend APIs, databases, authentication, payments, native integrations, hardware-aware features, CI/CD, App Store readiness, and QA. Led code reviews, integration planning, and release stabilization across fast-moving MVP cycles.

Senior Analyst III / Delivery Cloud Engineer — Kin + Carta

Remote | 2022 – 2024

Delivered React and enterprise engineering solutions for Syngenta Digital, including responsive interfaces, Java code audits, regulated delivery support, and cloud deployment automation that improved release reliability. Piloted practical LLM use in internal operations and delivery workflows.

Tampa, FL | 2021 – 2022

React / React Native Developer — ChainBytes LLC

Built and enhanced mobile and web features for a Bitcoin ATM platform, including real-time transaction-centric interfaces. Collaborated to integrate wallet functionality within user-facing mobile experiences.

Tampa, FL | 2022 – 2023

Code Coach — theCoderSchool

Mentored 30+ students through web, game, and mobile curriculum with practical, project-based instruction. Taught API integration, problem-solving, and object-oriented design patterns using iterative, production-minded mini-projects.

Tampa, FL | 2019 – 2021

Junior React Developer / Blockchain Research — BlockSpaces

Built frontend work for dApps and contributed to smart-contract testing environments. Researched interoperability across Ethereum and Hyperledger ecosystems for practical product integration decisions.

Tampa, FL | 2018 – 2019

SaaS React Developer — Accusoft

Built React components for document-processing SaaS products. Implemented secure routing patterns, authentication workflows, and tenant-aware UI behavior for multi-tenant deployments.

SELECTED SHIPPED PRODUCTS & OPEN SOURCE

- **PushUp Timer Pro** — Apple App Store (watchOS). Owner; published and live since Jan 2023. End-to-end watchOS workout timer: HealthKit integration, one-handed interactions, App Store review, provisioning, release maintenance.
- **PrepAI** — Founder / Lead Mobile Architect. Privacy-first iOS app with fully on-device inference, no cloud dependency or account; HealthKit and local clinical knowledge logic.
- **expo-sony-camera** — Author/Maintainer. Cross-platform Expo module (Kotlin/Swift + JS bridge) for Sony live view and remote capture via PTP; robust error handling and developer documentation.
- **ReelAgree** — Blind group voting for movie nights with server-authoritative consensus; public web, iOS, and Android.
- **pocketsage** — Offline on-device AI agent: local Llama 3.2 inference across iOS/Android with memory-efficient model packaging.
- **PocketRoar** — Camera streaming stack: BLE pairing, streaming profile handling, HEVC/H.264/AAC capture, RTMP publishing.