

Kenneth Kwakye-Gyamfi

Senior Mobile Engineer · Architecture & Platform

iOS · Android · React Native · New Architecture · Native Modules (Swift / Kotlin) · TypeScript · Node.js

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PROFESSIONAL SUMMARY

Mobile engineer with 9+ years designing, building, and shipping production iOS and Android apps, with a focus on mobile architecture and the hard technical decisions that keep codebases healthy at scale. React Native is my deepest tool, backed by hands-on native development in Swift and Kotlin — I led a bare React Native migration from 0.61 to 0.85 across the New Architecture (Fabric, TurboModules, Hermes), rewriting native modules while sustaining 99.7% crash-free stability, and re-architected an app to share its web codebase without losing native capability. Comfortable owning mobile end to end — from architecture and native platform work through release pipelines and backend integration (TypeScript, Node.js, AWS) — with a track record of building products from scratch in regulated, high-consequence domains: healthcare, banking, and emergency response.

TECHNICAL SKILLS

Mobile (React Native): React Native, New Architecture (Fabric, TurboModules, Hermes), bare RN, native modules & bridging, cross-platform architecture, performance optimization, release ownership

Native: iOS (Swift), Android (Kotlin), real-time location, push notifications, platform APIs

State & Data: Zustand, TanStack Query, Redux, Context

Testing & CI: Jest, React Native Testing Library, CircleCI

Languages: TypeScript, JavaScript, Swift, Kotlin

Backend & Integration: Node.js, AWS, Docker, REST APIs; React for web where needed

Engineering: Production support & debugging, security fixes, CI/CD, code reviews, technical decision-making

WORK EXPERIENCE

Senior Mobile / Full-Stack Engineer — Wellthy (United States, Remote)

Nov 2021 – Jun 2026

- **Led** a multi-version migration of a bare React Native app from 0.61 to 0.85, carrying a legacy codebase across the New Architecture transition (Fabric, TurboModules, Hermes) — rewriting native modules that broke along the way, eliminating years of accumulated tech debt, and sustaining a 99.7% crash-free rate through the major-version migration.
- **Re-architected** the mobile app to share the web application's codebase while preserving native capabilities such as push notifications and secure local storage, reducing duplication and long-term maintenance overhead.
- **Authored** native module and bridging code in Swift and Kotlin to meet New Architecture requirements and deliver platform-specific functionality.
- **Owned** end-to-end delivery as one of 2–3 mobile engineers on a regulated healthcare platform — from technical design through CircleCI release pipelines, monitoring, and iteration — partnering with product, design, backend, QA, and security teams, and informally mentoring teammates through code review.

- **Resolved** production bugs, security issues, and release blockers, improving startup time, runtime responsiveness, and overall stability for a user-sensitive healthcare product.

Senior Mobile Engineer — Emergency Response Africa (Nigeria, Remote)

Jul 2020 – Jun 2022

Part-time, Contract — concurrent with Callstack

- **Built and launched** two production mobile apps from scratch forming a two-sided emergency-response platform — ERA Signal (public, for summoning help; 500+ downloads) and ERA ResQ (responder/dispatch; 100+ downloads) — deployed and used in live emergency operations.
- **Implemented** the technically demanding pieces of real-time emergency software: live GPS location tracking, push/SMS alerting, and maps-based dispatch routing across iOS and Android.
- **Translated** urgent field requirements into reliable, time-sensitive features using React Native, Swift, and Kotlin, and supported production releases and stability in a high-pressure operational environment.

Senior React Native Engineer — Callstack (Wrocław, Poland, Remote)

Apr 2020 – Sep 2021

- **Delivered** React Native engineering at a specialist consultancy recognized for deep React Native expertise, open-source contributions, and high cross-platform quality standards.
- **Built** and maintained client-facing iOS and Android products using React Native, TypeScript, and native tooling, turning client requirements into production-ready features and release improvements.
- **Improved** mobile code quality through architecture reviews, reusable components, refactoring, and work on cross-platform performance and native integration issues.

System Integration Support Specialist — eProcess (Accra, Ghana)

Jun 2019 – Apr 2020

- **Supported** local and international banking integrations across identity, transaction, and production environments, maintaining reliable cross-system functionality for regulated systems.
- **Automated** banking processes using MuleSoft, reducing manual operational effort and improving consistency across secure backend workflows; troubleshoot integration failures to restore service reliability.

Software Developer — getINNOTized GmbH (Accra, Ghana)

Dec 2017 – May 2019

- **Led** development of a consumer web platform (Node.js, Next.js) from early requirements through production, and engineered the early 0-to-1 product foundations and architecture for Rydes, a ridesharing app, during its pre-launch build.

Mobile Developer — ASQII (Kumasi, Ghana)

Jan 2017 – Oct 2017

- **Developed** and maintained early-stage React Native applications — building UI components, integrating APIs, and collaborating with a senior developer on architecture and code quality.

EDUCATION

BSc. Computer Engineering — Kwame Nkrumah University of Science and Technology

2013 – 2017