

Joel Ragen Aduma

Software Developer

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PROFILE

Senior React Native Architect & Mobile Engineer with 5+ years of experience delivering high-security, SCA-compliant banking platforms and AI enterprise applications. Specialized in bridging device hardware, biometrics, and secure architecture with robust TypeScript mobile libraries in heavily regulated environments.

EDUCATION

United States International University – Africa 09/2015 – 12/2019 | Nairobi, Kenya
BSc. Applied Computer Technology

CORE COMPETENCIES

Mobile & Front-End: JavaScript (ES6) | TypeScript | ReactJS | React Native | NextJS | React Navigation | Redux Toolkit | Context API | Expo | REST APIs | GraphQL | HTML5 | CSS3 | Responsive Web Design

Backend & Integration: Laravel/PHP | NodeJS/Express.js | MySQL | MongoDB

Security & Authentication: Biometric Authentication (Face ID, Touch ID) | SCA | MFA | OAuth2 | JWT

Collaboration Tools: Azure Devops | Jira | Clickup | Agile (Scrum/Kanban)

Testing: Playwright | Jest

Cloud Services: AWS Amplify | Firebase Cloud Messaging (FCM) | Firebase Firestore | S3 | App Distribution (TestFlight) | Firebase Analytics

PROFESSIONAL EXPERIENCE

Turing 01/2026 – 04/2026 | Nairobi, Kenya
Full-Stack Software Engineer (Generalist, AI Projects) — Turing (Contract)

- Selected for a global contractor role under Turing's Generalist track, contributing to AI-focused engineering projects across multiple domains
- Worked across ambiguous problem spaces, rapidly adapting to different codebases, architectures, and product requirements
- Integrated AI/LLM capabilities into applications, including prompt-driven workflows, data transformation, and intelligent feature layers

- Contributed to system design decisions, balancing performance, scalability, and development speed in fast-moving environments
- Collaborated with globally distributed teams, participating in code reviews, debugging, and iterative feature delivery

Diamond Trust Bank

07/2023 – present | Nairobi, Kenya

Senior React Native Developer

- Collaborated with backend teams to map Java SpringBoot microservice APIs to React Native state management, ensuring optimal data synchronization and offline-first capabilities.
- Architected core modular components and custom hooks using TypeScript and Redux Toolkit, reducing code duplication by 30% across the flagship application.
- Integrated multi-factor authentication (SCA-compliant biometrics) improving app security rating from internal audit from 78% to 95%.
- Automated build and distribution with Firebase App Distribution and TestFlight, cutting deployment time by 40%.
- Mentored 2 junior developers on mobile best practices, Git workflow, and performance profiling.
- Oversaw performance optimization, achieving 30% faster app startup time and improved crash-free rate above 99.5%.

Amband Ltd

09/2022 – 06/2023 | Nairobi, Kenya

Full Stack Developer

- Developed high-throughput Laravel APIs optimized for low-bandwidth environments to support android utility apps
- Developed API for Waste collection system feeding an android app to be used by refugees at Kakuma Refugee Camp in partnership with DanChurch Aid Kenya.

Zummit Africa

11/2022 – 03/2023

Frontend Developer

Lagos, Nigeria (Remote)

- Built modular React + TypeScript components for Zapi.ai , an AI marketplace platform.
- Collaborated across remote teams to integrate AI SDK documentation interfaces, improving user onboarding by 40%.
- Enhanced UI rendering efficiency by 25% through memoization and React performance profiling.

Farwell Innovations Ltd

03/2021 – 07/2022 | Nairobi, Kenya

Software Developer

- Developed corporate e-learning platforms using Laravel and React Native for enterprise clients.
- Implemented reusable UI components and integrated push notifications via Firebase Cloud Messaging (FCM).
- Built ReactJS dashboards for learning analytics visualization with 20% faster load time than previous version.

Save the Children International

03/2020 – 05/2020 | Nairobi, Kenya

IT Intern

- Updated and validated the internal Asset Management System using the Snipe-IT Asset Management System (Laravel).
- Automated reporting scripts to improve data accuracy and eliminate redundant asset entries.

PROJECTS

AMLA - Africa Mining Atlas [↗](#)

09/2021 – 01/2022

African Legal Support Facility (The legal entity of African Development Bank)

- Built the entire frontend infrastructure for the African Legal Support Facility (under the African Development Bank) using React/TypeScript.
- Designed responsive, data-dense geographic mapping and analytics dashboards for enterprise legal data.

AFAA - African Arbitration Atlas [↗](#)

03/2021 – 08/2021

African Arbitration Atlas

I was responsible for front-end development on the platform.

Advocacy Accelerator [↗](#)

11/2021 – 01/2021

I was part of a team of two working as a full-stack developer on this project.

Reduce My Carbon

08/2021 – 07/2022

Mobile Application and API (MVP)

Architected MVP for a carbon emission calculator with M-PESA integration. Implemented carbon offset workflows and biometric authentication for secure user identity.

Tiny Totos Kenya [↗](#)

03/2022 – 07/2022

A full-stack application built on the Laravel framework.

Zapi.ai [↗](#)

11/2022 – 03/2023

The Artificial Intelligence (AI) API Marketplace

- Led front-end integration and performance optimization for high-traffic API marketplace. Built dynamic SDK documentation modules with live code previews.