

George Chakama

Senior Software Engineer | Mobile and Full Stack

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PROFILE

Software engineer with 6+ years of experience building mobile and backend products across logistics, fintech, and sustainability. Experienced in React Native, TypeScript, Ruby on Rails, and Google Cloud, with a focus on real-time systems, production reliability, and secure application design. Rebuilt a production driver app, modernised its architecture, and resolved critical reliability and booking issues at Etapath.

TECHNICAL SKILLS

Languages and frameworks: TypeScript, JavaScript, Node.js, Ruby on Rails, React, React Native, Expo, Next.js, GraphQL

Cloud and data: Google Cloud, PostgreSQL, Redis, Docker, Kubernetes, Helm, Convex

Mobile and tooling: Google Navigation SDK, Fleet Engine, Firebase Cloud Messaging, TanStack Query, Sentry, Maestro, Mapbox, Gemini

PROFESSIONAL EXPERIENCE

Etapath | Software Engineer | Jul 2023 – Present

- Rebuilt the production driver app using React Native and TypeScript, integrating Google Navigation SDK, Fleet Engine, push notifications, background GPS, and passenger geofencing.
- Led the move to Expo SDK 56, React Native 0.85, React 19 and the New Architecture; migrated the Fleet Engine integration to TurboModules and retired three native patches.
- Re-architected the mobile data layer with TanStack Query and resilient WebSocket handling, removing 3,600 lines of obsolete code and doubling the test suite.
- Resolved native crashes and GNSS memory issues; introduced Sentry, EAS Observe, and 25 Maestro end-to-end flows to improve production visibility and test coverage.
- Addressed a Fleet Engine error storm that generated 675 Sentry events in six weeks using deterministic IDs, idempotent task creation, and shared retry handling.
- Resolved a driver double-booking race condition using database row locking and transactions, supported by regression tests and conflict-detection UI.
- Designed fleet-scoped role-based access control across 12 policies and strengthened protections against unauthorised access, injection, and OTP brute force.
- Contributed to architecture decisions, code reviews, quality gates, and testing standards; built an AI support-triage workflow using WhatsApp, Gemini, and ClickUp.

TDi Sustainability | Software Engineer, Contract | Jun 2025 – Oct 2025

- Built a strategic roadmap platform for materials risk assessment, bill-of-materials definition, risk scoring, business exposure, and reporting.
- Designed a unified ESG risk dashboard integrating TEDD, Global Risk Tool, ICAT, Search 360, and entities and materials datasets.

- Built secure data workflows and visualisations using Next.js, TypeScript, Convex, Mapbox, and Recharts; supported Kubernetes and Helm delivery.

Restio Labs | Software Engineer | Feb 2023 – Jun 2023

- Built application and API integrations, including bot-driven workflows connecting conversational interfaces to backend services.

Velocity Tech Inc. | Full Stack Engineer | Jan 2023 – May 2023

Codum.cc | Frontend Developer | Sep 2022 – Feb 2023

- Built React interfaces and integrated Python and PostgreSQL services and Stripe payments into product workflows.

Kerapay | Lead Software Developer | Feb 2022 – Oct 2022

- Led and mentored developers delivering web and mobile financial-benefit workflows using React, React Native, Node.js, and TypeScript.

EARLIER EXPERIENCE

orbit — Frontend Developer (Jul 2021 – Jan 2022) | Benthos Technologies — Web Developer (Jan 2020 – Apr 2021) | Covenant — Web and Print Designer (May 2018 – Jan 2020)

SELECTED PRODUCTS

Oddah Built and launched a relationship wellness app for couples, with shared goals, calendars, games, and relationship insights. Available on iOS and Android.

SubTrack Designed and shipped a subscription management app with renewal tracking, alerts, spending analytics, multi-currency conversion, and widgets. Available on iOS and Android.

HearMe Built an award-winning assistive communication app that helps people with speech impairments communicate using customisable text-to-speech. Available on Google Play.

SPEAKING AND COMMUNITY

Speaker at Build with AI (GDG Accra x Harare), 2026, and Google I/O Extended Harare, 2024. Mentor with WeThinkCode, Uncommon.org, and Google Africa Developer Scholarship.

Recognition: Tech Innovator of the Year for HearMe; 30 Under 30 Tech Innovator; JCI TOYP Honoree.