# Joseph Karanja

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Fullstack developer who has spent three years building web and mobile products in TypeScript, from the database schema to the deployed app. Happiest taking an idea all the way through: shaping the data model, writing the API, then building the React web app and the Expo Android app that sit on top of it. Comfortable across React and Next.js, tests with Vitest, and keeps a set of side projects running to try out new tools. Cares about work that people actually use every day.

## PROFESSIONAL EXPERIENCE

Green Generation Initiative — April 2025 - Present

### Fullstack Developer

- Built **GGI App** end to end, the internal staff tool: a React web app and an Expo Android app on one Hono and oRPC API, covering schools, tree nurseries, planting activities, partners and contributions, georeferenced maps and reporting for field teams.
- Built the organisation's website, **GGI Monorepo**: memberships, shop and checkout, donations, events, blog, programmes and a schools map, with a member dashboard, staff and admin surfaces, and a Cloudflare Worker for the newsletter.
- Build and maintain **ANGLE**, the platform connecting climate innovators with accelerators, partners and programmes across Africa, serving 3,576+ startups across 50 countries. Shipped its dynamic application system with conditional fields and real-time validation, a programme management dashboard with a drag-and-drop form builder, a partner network, and a resources and knowledge hub for climate entrepreneurs.
- Built and ran the platform for **AYCA 2025**, the Africa Youth Climate Assembly and official youth-led side event to the African Climate Summit, which hosted 2,000+ virtual and 400+ in-person participants.
- Replaced the organisation's shared planning spreadsheet with a programme delivery system: project register, weekly check-ins, risk register and approval trail.
- Keep the apps fast as they grow: route-level code splitting and lazy loading, deferred non-critical data, image and asset optimisation, and bundle analysis before each release.

**Technologies:** React 19, TanStack Router, TanStack Query, TanStack Form, Expo / React Native, Hono, oRPC, Bun, Turborepo, Prisma, PostgreSQL, Better Auth, Tailwind CSS 4, Docker, GitHub Actions

FahariConnect — December 2025 - August 2026

### Fullstack Developer

- Own the Django REST API behind a property marketplace: listings, buyers, CRM, search, reviews, site visits, subscriptions and uploads, plus the public explorer web app on top of it.
- Built the business application as a React 19 SPA, and ported it to mobile with Expo and Expo Router against the same API, so web and mobile stay one product rather than two.
- Deliver **custom single-tenant deployments** per client: frontend and backend forked from the multi-tenant product with the SaaS-only surfaces removed, each on its own Docker Compose stack and nginx config, kept separate so a client build can diverge without forking the roadmap.

**Technologies:** React 19, TypeScript, TanStack Router, Zustand, Expo / React Native, Expo Router, Uniwind, Django REST Framework, Python, PostgreSQL, Docker, nginx

ApigZ — June 2024 - October 2024

### Frontend & Mobile Developer

- Built the web and Android apps for a pig farm management platform.
- Built the web application with React, TanStack Router, TanStack Query and Zustand: individual animal tracking, breeding and farrowing calendars, weight monitoring, feed conversion calculations, health records and financial reporting.
- Developed the Android application with React Native, Expo and NativeWind, with offline access so records can be updated in the field.

**Technologies:** React, TypeScript, React Native, Expo, TanStack Router, TanStack Query, Zustand, NativeWind

Mensa Philosophical Circle April 2023 - March 2025

**Fullstack Developer**

- Migrated the React codebase to TypeScript.
- Moved API calls to TanStack Query, adding caching and cutting repeat loads.
- Built the NestJS backend and wired it to the React frontend.

**Technologies:** React, TypeScript, NestJS, TanStack Query

## PERSONAL PROJECTS

**GGI Monorepo - organisation website**

The organisation's public site and everything behind it in one Turborepo: memberships, shop, donations, events, blog, programmes, corporate partnership and a schools map, with member, staff and admin surfaces. Single-tenant by design, with access governed by role.

**Technologies: Bun, Turborepo, React 19, TanStack Router, Hono, oRPC, Prisma, PostgreSQL, Better Auth, Base UI, Tailwind CSS 4, Cloudflare Workers**

**ANGLE & AYCA 2025**

Connects climate innovators with accelerators, partners and programmes across Africa. Dynamic applications with conditional fields, a drag-and-drop form builder for programme managers, a partner network and a knowledge hub. AYCA 2025 ran on the same platform.

**Technologies: React 19, TypeScript, TanStack Router, Hono, oRPC, Prisma, PostgreSQL, Better Auth, Polar, Tailwind CSS 4**

**FahariConnect**

A property marketplace built as four codebases: a Django REST API, a public explorer web app, a React 19 business application, and an Expo mobile port against the same API. Custom single-tenant deployments are delivered per client from the same product, each with its own containerised stack.

**Technologies: Django REST Framework, Python, React 19, TanStack Router, Zustand, Expo, Expo Router, Uniwind, PostgreSQL, Docker**

**Kagi**

A manga and light-novel reader that runs entirely in the browser and installs as a PWA. Sources are scraped client-side, the library lives in SQLite-WASM on the device, and chapters download for offline reading and export as CBZ. Optional accounts back the library up and sync it across devices. The build prerenders only the document shell; the Worker serves source proxies and the sync API.

**Technologies: React 19, TanStack Start, TanStack Query, Drizzle ORM, SQLite-WASM, Cloudflare Workers, Cloudflare D1, Clerk, Tailwind CSS 4, shadcn/ui, Vite**

**Emails**

Mail admin for josephmuturi.me. The provider deletes mail after a few days, so the app keeps its own copy. A verified webhook writes messages to D1 and attachments to R2, with duplicate-safe retries. Threading falls back from the provider's thread id to In-Reply-To then to subject plus a shared participant. Owner, admin and user roles scope every read; sign-in is two-step, with single-use access codes for anyone who has never set a password.

**Technologies: React 19, TanStack Start, Cloudflare Workers, Cloudflare D1, Cloudflare R2, Better Auth, React Email, Tailwind CSS 4, shadcn/ui**

**Nexus**

A task manager built around a chat-style composer rather than a form: type a task, pick a project and a category inline, and it files itself. Projects, categories and settled-task history, with subscription billing.

**Technologies: React 19, TanStack Start, TanStack Router, Convex, Clerk, Polar, Tailwind CSS 4, shadcn/ui**

**Wallyt**
Personal finance, web and native. Wallet balances are summed from their transactions, so they cannot drift. Money moves in, out and between wallets, and cross-currency transfers record both the amount that left and the amount that arrived. Separate ledgers track what people owe you and what you owe. Each debt is settled by payment or closed as forgiven or written off. Totals group by currency and are never added across them. Receipts attach as images or PDFs through signed uploads. The Expo app types every call from the Worker's own API registry, so renaming an argument on the server stops the app compiling.
**Technologies: React 19, TanStack Start, Cloudflare Workers, Cloudflare D1, Cloudflare R2, Drizzle ORM, Expo, React Native, Expo Router, HeroUI Native, Uniwind, TanStack Query, Clerk**

## TECHNICAL SKILLS

**Languages:** TypeScript, JavaScript (ES6+), Python, SQL, HTML5, CSS3

**Frontend:** React 19, Next.js, TanStack Start, TanStack Router, TanStack Query, TanStack Form, Tailwind CSS 4, shadcn/ui, Base UI, Zustand, Redux, Vite

**Mobile:** React Native, Expo, Expo Router, NativeWind, Uniwind, HeroUI Native

**Backend:** Hono, oRPC, NestJS, Node.js, Bun, Django REST Framework, Better Auth, Clerk

**Data:** PostgreSQL, Prisma, Drizzle ORM, SQLite, Cloudflare D1, Turso, Convex

**Infrastructure:** Cloudflare Workers, R2 and KV, Docker, Docker Compose, GitHub Actions, Caddy, nginx, Turborepo, VPS deployment

**Tooling:** Git, Vitest, Biome, ESLint, Prettier, Polar, Resend

## EDUCATION

Multimedia University of Kenya 2019 - 2023

### BSc. Mathematics and Computer Science

- Coursework in algorithms, data structures and software engineering, with project work focused on frontend development.

ALX Nairobi April 2023 - November 2024

### Certificate in Software Engineering

- Shipped production-ready applications through project-based sprints.
- REST API design, authentication, server deployment, and SQL and NoSQL databases.

## INTERESTS

- Web design and development
- New web technologies
- Reading and research

## REFERENCES

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