

YASIN WALUM

Software Engineer — Front-End & Full-Stack

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SUMMARY

Front-end focused Software Engineer with five years shipping production web and mobile apps in React, Next.js, TypeScript, React Native and Flutter. I'm currently building the front end of a GMP-regulated pharmaceutical ERP, where audit trails, e-signatures and data integrity are hard requirements. I own features end to end, from component architecture to deployment, with working backend depth in FastAPI, NestJS and PostgreSQL.

WORK EXPERIENCE

Software Engineer, Front-End (Contract)

2026 – Present

Tricsoft Technologies Ltd, Kampala

- Building the front end of a GMP-regulated manufacturing and quality ERP for a multi-site pharmaceutical group, compliant with 21 CFR Part 11, EU GMP Annex 11 and ALCOA+.
- Authored the front-end architecture standard: React 19, TanStack Router and Query, React Hook Form with Zod, shadcn/Radix, Tailwind v4 and Vite.
- Lead front-end delivery of the procurement module, from supplier onboarding to payment close, validated against FS and URS test specs.
- Designed the procurement data model (76-entity ERD) and an approval engine with parallel stages, quorum, delegation and compliant e-signatures.
- Built the initial PostgreSQL 16 schema (44 tables) with a hash-chained audit trail and a compliance test suite.

Software Engineer

2025 – 2026

Akorion Co. Ltd (EzyAgric), Kampala

- Built farmer-facing features for a production agricultural platform used on low-end Android phones across rural Uganda.
- Developed Flutter mobile and web apps (GetX) that stay usable on poor connections through local storage and sync.
- Integrated MTN MoMo and Airtel Money payments with idempotent handling to prevent duplicate charges.

Freelance Software Developer

2020 – 2025

Self-employed, Kampala

- Built and shipped web and mobile apps for clients in React, Next.js, TypeScript, React Native and Flutter.
- Delivered features end to end, from design to API to deployment, while completing a BSc in Computer Science.

- Taught secondary Mathematics and Physics, the quantitative base I now apply in engineering.

SELECTED PROJECTS

SkinSense AI — skin-analysis SaaS for Aurora Organics

Next.js · FastAPI · Gemini

- Led a team of five developers from a proposal and SRS I wrote to a shipped product.
- AI skin analysis with climate-aware product recommendations synced from the client's WooCommerce store.

Somo — video generation for a university LMS

NestJS · Playwright · FFmpeg

- Pipeline that renders lesson videos from structured content, at a fraction of the cost of AI video tools.

Sula — hotel discovery app for Uganda

Next.js · Expo · Prisma

- Web and mobile apps in one monorepo, with email OTP sign-in and mobile money payments.

Riseful — challenge-based alarm app

React Native · Expo · SQLite

- Alarms that stop only when you solve a chess, coding or maths challenge, from 600 puzzles generated and verified in code.

EDUCATION

Bachelor of Science in Computer Science

Cavendish University Uganda, Kampala

SKILLS

Front-End	React 19, Next.js, TypeScript, TanStack Router & Query, Zustand, Zod, Tailwind CSS, shadcn/Radix
Mobile	React Native (Expo), Flutter / Dart, offline-first sync
Back-End	Python (FastAPI), Node.js, NestJS, REST & OpenAPI
Databases	PostgreSQL, Prisma, SQLite
Practices	Git & code review, CI/CD, Docker, monorepos, testing, technical specs, GxP software
Languages	English, Luganda, Lugisu