Edson Francisco

Digital Systems Architect

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PROFILE

I'm a software engineer and digital systems architect based in Beira, Mozambique. Since 2021 I've been co-founder and technical lead of FAMS, the farmer and agribusiness management platform that grew out of a GIZ initiative and which I keep in production: backend, the API behind the field apps, tests and deploy pipeline.

Committed in parallel to multiple private, national and international projects of real relevance and socio-economic impact — from private companies and agribusiness to public institutions and development cooperation programmes.

STRENGTHS (CLIFTONSTRENGTHS, GALLUP 2024)

Strategic — creates alternative ways forward and quickly spots relevant patterns and issues · **Positivity** — contagious enthusiasm that gets teams moving · **Woo** — enjoys meeting new people and building connection · **Arranger** — arranges people and resources flexibly for maximum productivity · **Maximizer** — turns something strong into something superb

EXPERIENCE

FAMS – Farmer & Agent Management System 2021 – Present

Co-founder · Chief Technology & Product Officer · Lead developer

- Technical lead and main developer of the Laravel backend, mobile API, migrations, tests and CI/CD.
- 99 releases shipped between April 2021 and September 2026, with a PT/EN changelog visible to customers.
- More than 55,000 farmers digitised across 7 provinces and 9 value chains (half of them women), over 10,000 inputs distributed and tracked, and up to US$1.7 million in cumulative payments to farmers, recorded in FAMS.
- Contributes to SDGs 2, 8, 9 and 12 (and, as complementary goals, 1, 5, 10 and 16): smallholder productivity and income, transparent payments, digital value chains and traceability from farmer to factory.
- Traceability use cases: honey (MHC), from beekeeper to processed batch, and copra (OLIMAX, since 2024), from field and factory-gate purchases to oil produced, stored and shipped — including data import, traceability reports and an impact dashboard with metrics.
- Geo-referenced mapping of production fields and a farmer dossier, with a farmer ID card.
- Move to multi-tenant SaaS (FAMS Mahala); a farmer credit-scoring system is planned next.
- Field implementation and training for agribusiness companies, with partners such as GIZ, NIRAS and COMO Consult.

EQUIP Moçambique – Associação Empoderando Moçambique Nov 2022 – Present

IT Manager · Technology Department Lead

- Lead the technology team that builds and runs the association's products (FAMS, Kukura, Abastece, JURIS, Fonte da Vida).
- Management and coordination without leaving the code: daily programming, code review, integrations, architecture decisions, watching deploy pipelines and fixing production problems directly.
- Technical supervision of JURIS in production, including Juris Bot on WhatsApp (launched 30 Sep 2026), and IT governance: security, vendors and continuous improvement.
- Technical coordination of projects with international partners such as GIZ, NIRAS and Enabel — for example, the FAMS rollout to six agribusinesses supported by NIRAS under VaMoz Competir (2025–2026).

NIRAS – VaMoz Competir (GIZ) · consultoria Oct 2025 – Jul 2026

National Short-Term Expert for Digitalisation

- Coordinated the FAMS rollout to the companies supported by NIRAS under VaMoz Competir, a GIZ project commissioned by BMZ and co-financed by the EU.
- Field missions at DREAM Agro, Green Agro Commodities, PROIMAC and Moz Agri: configuration, training in farmer registration with georeferencing, and adoption follow-up.
- Direct FAMS data access for NIRAS and GIZ's Monitoring and Evaluation team, and attendance exports for the GIZ/Reframe analysis.

TechSolutions, Lda (freelance) 2025 – 2026

Developer & technical consultant

- FUNAE — grievance redress platform (MGQR): automatic assignment, notifications, multichannel login and much of the Vue frontend.
- E.Acacia — review, testing and App Store / Google Play submission of a municipal fee payment app.

GIZ – ProEcon (com COMO Consult) · consultoria Feb 2021 – Nov 2023
Consultant, trainer and FAMS technical lead

- FAMS rollout to ten agribusinesses in four value chains: requirements, data migration, configuration, training and support.
- Requests from these clients became modules I built in the backend; in 2022 the company was selected in a GIZ national tender to implement FAMS.
- Sociedade de Mutuali (2023) — cotton fibre factory: farmer registration, inputs on credit, first- and second-grade cotton purchases with debt deduction, transport, storage, production and quality grading.

TechSolutions, Lda Feb 2022 – Jun 2022
Programmer & systems analyst

- Djobar — Laravel recruitment platform: timed candidate tests, queued SMS, bulk import and interview scheduling.

EQUIP Moçambique – Associação Empoderando Moçambique May 2019 – Sep 2022
Systems implementation technician & software developer

- APIs and back-offices for Consultare, JURIS, H-Link, Fonte da Vida and Start Escolar.
- System implementation and operational support for the association's digital services.

ENSYS (Enterprise Systems & Development), Lda Oct 2018 – Nov 2018
Systems & digital monitoring intern

- Vehicle control, monitoring and video surveillance systems.

SELECTED PROJECTS

FAMS – Farmer & Agent Management System (2021–2026) — Laravel platform for agribusinesses to manage farmers, field purchases, stock and processing — with an API for the offline field app.

JURIS (2020–2026) — Mozambican law in plain language, with anonymous reporting and, since 30 September 2026, the Juris Bot on WhatsApp — I built much of the API and admin panel and now supervise the technical team.

Kukura (2024–2026) — A platform for community organisations to prove impact and raise funds — backend, deployment and account verification.

MHC (Eco-Micaia) — honey traced from beekeeper to bottle (2026) — Every bucket of honey linked to its beekeeper at the moment of purchase and followed through filtering, pressing and colour grading to the bottled product.

OLIMAX (ECOMOZ) — copra oil factory (2024–2026) — From copra bought in the field to shipped oil: batches, yield, acidity (FFA) and transport traced in FAMS.

Sociedade de Mutuali — cotton fibre factory (2023) — From farmer registration and inputs on credit to graded fibre: cotton purchases with debt deduction, transport, storage and production in FAMS.

Moz Agri — FAMS implementation (2026) — Goat and meat purchases in FAMS: registered farmers, animals by species and sex, validated in the field, the factory and the slaughterhouse.

VaMoz Competir – GIZ / NIRAS (2025–2026) — Digitalisation component of a GIZ programme: FAMS rolled out to five agribusinesses across four provinces.

FUNAE – MGQR (Grievance Redress Mechanism) (2025–2026) — Platform where citizens submit grievances, complaints and suggestions to FUNAE, with automatic routing to officers and role-based dashboards.

SIGA – Instituto Politécnico Planalto (2026) — Maintaining and modernising an inherited PHP academic and finance system, without rewriting it.

Fonte da Vida (2021–2022) — Free Christian resources in African languages — I was the main developer of the Laravel API and admin panel.

Consultare (2019–2021) — API and back-office for the Consultare first-aid app, designed to work offline.

TECHNOLOGIES

PHP · Laravel · MySQL · Ionic · JavaScript · Angular · Bootstrap · GitHub Actions · TypeScript · Capacitor · Docker · HTML/CSS · Supabase · Tailwind CSS · Next.js · WordPress · Azure DevOps · Coolify · React · Twilio · Vue · Bash · Inertia.js · Livewire · M-Pesa · Networking · Node.js · PostgreSQL · Prisma · Quasar · React Native · WhatsApp Cloud API

EDUCATION

BSc in Computer Engineering (finalist, thesis defence pending) — Universidade Zambeze – Beira

LANGUAGES

Portuguese (Native) · English (Advanced)

RECOGNITION

Selected — GIZ national tender — company selected to implement FAMS (GIZ, 2022)

1st place — C-YANGA — Best Technology and Innovation (#HACK Indigitous Beira, Oct 2020)

2nd place — DONANTE — donor connection platform (#HACK Indigitous Beira, Nov 2021)

CERTIFICATIONS (36)

SPRINT 2025 For Founders (Renew Capital) · Digital Transformation (Simplilearn) · Entrepreneurial Mindset (DIO) · Fundamentals of Intrapreneurship (DIO) · Bootcamp: Become Remote (DIO) · Cybersecurity & IT Awareness Training: Data Protection, GDPR and Information Security (Internal / Professional Training) · Linux: An Introduction to the Operating System (DIO) · Container Orchestration with Docker (DIO)