

Confiance UFITAMAHORO

Technical Owner | Research Signal, Data Design, & Systems

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SUMMARY

BSc Software Engineering student at AUCA (2024 to Present) and Technical Lead at TekNest, based in Kigali, Rwanda. I own production software end to end: database design, backend logic, front-end execution, deployment, and calibration. I apply a technical-owner mindset to ML-oriented data design, research signal quality, evaluation framework creation, failure root cause analysis, and cross-functional technical communication. I am comfortable operating in ambiguity, acting as a quality gate, and iterating rapidly on feedback loops.

CORE COMPETENCIES

Research Signal Judgment: end-to-end ownership, quality calibration, and decisive blocking when data integrity is insufficient

ML-Oriented Data Design: task definitions, annotation schemas, rubrics, incentives, and pipelines optimized for downstream model performance

Evaluation Frameworks: translating ambiguous real-world behavior into structured rubrics, benchmarks, and new data categories

Systems-Level Engineering: full stack product design, PostgreSQL, Node.js, Spring Boot, React, Docker, Linux, cloud infrastructure

Cross-Functional Communication: clear written and verbal narratives on tradeoffs, limitations, and signal strength for technical and non-technical stakeholders

Expert Engagement: kickoff, calibration, iteration, and gating with domain experts and operators

Top Skills: Full-Stack Development | Web Applications | Data Systems | Research Signal | Evaluation Design | ML Data

EXPERIENCE

Technical Lead | TekNest | Dec 2024 to Present | Kigali, Rwanda (Hybrid)

- Own engineering of bespoke digital products and the teknest.rw company platform end to end.
- Frame research/data problems, design PostgreSQL schemas, build pipelines, and gate quality for client delivery.
- Analyze system failures, profile root causes, and iterate on feedback loops improving platform performance.
- Partner with cross-functional teams to translate engineering progress into clear, credible technical narratives.

Web Developer Intern | SOLVIT AFRICA | Sep 2025 to Oct 2025 | Kigali, Rwanda (On-site)

- Designed evaluation task data: annotation schemas, rubrics, and QA calibration for web systems.
- Translated ambiguous real-world system behavior into structured task definitions and quality gates.

Javascript Developer Intern | RMsoft Ltd | Feb 2025 to May 2025 | Kigali, Rwanda (Hybrid)

- Implemented frontend and backend features while owning data integrity and QA for delivered systems.
- Troubleshoot failures, root-caused edge cases, and improved system performance through rapid iteration.

Web Developer & Web Designer Intern | kLab.rw | Jul 2022 to Aug 2022 | Kigali, Rwanda

- designed task definitions and rubrics via Figma; handled frontend and backend delivery under expert guidance.
- Gained exposure to startup environments, calibration cycles, and team collaboration.

SELECTED PROJECTS

TekNest | Company platform with AI integration and cloud infrastructure (teknest.rw)

SommaConnect | Online learning platform for learners and lecturers (Spring Boot · React · PostgreSQL)

StockRwa | Inventory data system with QR scanning, exports, and role-based access control (React · Prisma · PostgreSQL)

BAGIRE | Handpicked stays platform across Africa with booking data flows (React · Express · PostgreSQL)

AURA Hotel POS | Hotel restaurant POS with multi-role access and data integrity (Express · React · PostgreSQL)

Jentus Coffee | E-commerce platform with cart, checkout, admin (React · PHP · PostgreSQL)

IVAN Supply | Corporate platform for Electrical & General Supply with role-based access (React · Express · PostgreSQL)

Nziza.Art | Art marketplace connecting artists with collectors (React · PostgreSQL)

EDUCATION

Adventist University of Central Africa (AUCA) | 2024 to Present

- Computer Software Engineering, IT Faculty, expected to finish 2028.

Muhabura Integrated Polytechnic College | 2021 to 2023

- Diploma in Computer Systems & Software Engineering (L4 to L5), Software Development.

CERTIFICATIONS & TRAINING

- Networking Basics (NetOps I & II)
- Intro to Cybersecurity (Cisco)
- Hardware & Software Basics (Cisco)

LANGUAGES

Kinyarwanda: Mother tongue

English: Fluent, strong in writing and speaking

French: Fair