Simon Droti

Full-Stack Software Developer, Systems Architect & ICT Specialist

Uganda (Available Worldwide)
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LinkedIn: linkedin.com/in/simon-dr-a6a0751b4 Ventures: Corevida Grid & YFTC

Incubator: MU-BIC Digital Systems

PROFESSIONAL SUMMARY

Full-Stack Software Developer, Systems Architect, and Tech Entrepreneur with a strong track record of engineering scalable web applications, relational database architectures, and secure digital tools across East Africa. Co-Founder of Corevida Grid (NestQuest) and Youth Focus on Transforming Communities (YFTC, SafeStep). Experienced in leading technical lifecycles, institutional digital systems at Muni University Business Incubation Center (MU-BIC), enterprise IT infrastructure, and quantitative data analysis (Google Certified).

TECHNICAL COMPETENCIES

Backend & APIs:	PHP 8 (OOP, PDO Architecture), Node.js, TypeScript, RESTful API Design, JSON RPC, Session RBAC Auth
Database Systems:	MySQL, MariaDB, Relational Schema Normalization, Index Optimization, ACID Compliance, Foreign Key Integrity
Frontend & UI:	Modern JavaScript (ES6+), Semantic HTML5, CSS3, Tailwind CSS, Bootstrap, Responsive Mobile-First Design
Data & Analytics:	SQL Transformations, Tableau BI, R Programming (Tidy Data / Cleaning), Advanced Microsoft Excel Modeling
Security & DevOps:	Field-Level AES-256-GCM Cryptography, Linux (Ubuntu/Debian Sysadmin), Apache VirtualHosts, cPanel/WHM, WinSCP/FTP

PROFESSIONAL EXPERIENCE

Digital Systems Officer

Present

Muni University Business Incubation Center (MU-BIC) • Arua City, Uganda

- Administer institutional digital incubation systems and database pipelines supporting resident startups, student innovators, and regional business founders.
- Advise early-stage venture teams on software engineering best practices, MVP deployment architectures, and relational schema design.
- Architected the MOBIUS intercity transit and bus booking MVP, collaborating with Nodical Miles Logistics Ltd under MU-BIC incubation.
- Automate internal workflow metrics and data collection systems to track incubator performance milestones and startup compliance.

Co-Founder & Technical Lead

2024 – Present

Corevida Grid Co. Ltd (NestQuest) • Kampala / Remote, Uganda

- Architected and developed NestQuest (nestquest.corevidagrid.com), an end-to-end property marketplace and management system in Uganda.
- Engineered role-based access control (RBAC) portals for Admins, Reviewers, Licensed Agents, and Tenants with custom listing moderation pipelines.
- Designed a normalized MySQL schema across 15+ relational entity tables with index-optimized query paths and PDO constraints.
- Implemented commission ledgers, automated lease agreement generators, and tour booking schedulers.

Co-Founder & Tech Lead

2023 — Present

Youth Focus on Transforming Communities (YFTC) • Yumbe / Bidibidi, Uganda

- Co-founded a refugee-led community organization dedicated to youth digital skills, connectivity, and social innovation in Bidibidi Refugee Settlement.
- Architected and launched SafeStep (yftc.org/safestep), an anonymous GBV reporting platform featuring field-level AES-256-GCM encryption, rate limiting, and coordinator-survivor messaging.
- Built and deployed the YFTC web portal (yftc.org) with dynamic fundraising cause counters and donation management.

IT Officer & Systems Engineer

2023 — 2025

Here Is Life Uganda • Yumbe, Uganda

- Engineered the institutional web platform and administrative portal (hereislifeug.org), incorporating live Voice of Life FM (100.9 FM) program scheduling and presenter roster CRUD with live photo previews.
- Administered IT infrastructure, network stability, and security for 50+ staff across regional offices.
- Constructed relational database extraction queries in MySQL and automated reporting workflows in Excel to track clean water distribution, ESTA School alumni, and community metrics.

Project Officer

2023 — 2024

Brass for Africa • Yumbe, Uganda

- Coordinated end-to-end baseline and endline research surveys across youth and community programs in Yumbe District.
- Extracted, cleaned, and analyzed quantitative and qualitative survey data using spreadsheet and statistical tools.
- Synthesized analytical findings into structured reports and presentations for institutional stakeholders to guide evidence-based decisions.

FEATURED SYSTEMS ENGINEERED

NestQuest Platform

Live ↗

`PHP 8 (OOP/PDO) • MySQL • TypeScript • RBAC`

Full-scale property marketplace connecting verified agents, landlords, and tenants with commission ledgers and moderation workflows.

SafeStep Reporting System

Live ↗

`AES-256-GCM • PHP Security • MariaDB • Zero-Trace`

Privacy-first GBV reporting and case-referral platform with field-level encryption, panic quick-exit, and rate-limited tokens.

Here Is Life Broadcast Portal

Live ↗

`PHP (PDO) • MySQL • cPanel • Audio Broadcast`

Institutional portal and radio operations manager for Voice of Life FM 100.9 with presenter scheduling and verified impact counters.

MOBIUS Bus Booking & Fleet System

Live ↗

`PHP 8 (OOP) • MySQL • Mobile Money Flow • Fleet Logistics`

Transit and intercity bus ticketing platform with interactive seat selection, digital terminal manifests, passenger dispatch, and corporate fleet hire.

CERTIFICATIONS & CREDENTIALS

Google Data Analytics Professional Certificate — Google / Coursera 2020

Rigorous credential covering SQL database querying, R data cleaning and visualization, Tableau dashboards, and data governance.