



MUHINDO MUBARAKA

Manager, Information Systems

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Professional Summary

IT professional with **over 9 years of experience** in systems development, database administration, IT infrastructure management, and digital solutions delivery. Proven track record of leading the design and deployment of enterprise-level information systems for government ministries, universities, NGOs, and private organisations across Uganda. Skilled in **full-stack software engineering**, relational database management, server administration, network systems, cybersecurity best practices, and ICT project management.

Currently completing a **Master of Science in Computer Science** at Makerere University, researching distributed systems, blockchain, and machine learning. Experienced in managing e-learning platforms, student information systems, and institutional ICT infrastructure. Strong capabilities in stakeholder engagement, staff training and capacity building, IT policy development, and digital transformation strategy.

Education

Master of Science in Computer Science 2024 – Present (In Progress)

Makerere University, College of Computing & Information Sciences, Kampala, Uganda Research: Blockchain-Based

Federated Learning for Livestock Disease Early Warning Systems

Supervisor: Dr. Chongomweru Halimu. Key areas: Distributed Systems, Database Systems, Network Security, ML.

Bachelor of Science in Computer Science and Engineering 2019 – 2020

Islamic University of Technology (IUT), Dhaka, Bangladesh Second Class Upper Division Specialisation in Software Engineering and Technical Education.

Higher Diploma in Computer Science and Engineering 2016 – 2018

Islamic University of Technology (IUT), Dhaka, Bangladesh Second Class Upper Division Specialisation in Web Technologies and Systems Development.

Uganda Advanced Certificate of Education (UACE) 2014 – 2015

Rwenzori Saad Islamic Institute, Kasese, Uganda Subjects: Physics, Mathematics, Computer Studies, Entrepreneurship.

Professional Experience

Eight Tech Consults Ltd, Kampala, Uganda

Full-Stack Developer & Application Engineer

January 2021 – Present

Lead technical architect responsible for designing, developing, deploying, and maintaining complex enterprise information systems for government agencies, NGOs, and private sector clients. Manage full software development lifecycle including requirements analysis, system architecture, development, testing, deployment, user training, and ongoing support.

Selected Projects Relevant to Information Systems Management:

- **Uganda Livestock Information Tracking System (ULITS):** National information system for the Ministry of Agriculture. Designed multi-platform system (web, Android, iOS) for livestock registration, movement tracking, vaccination records, and disease surveillance. Implemented offline-first architecture, GPS/GIS integration, role-based access control, SMS/USSD notifications, and MySQL database administration. Conducted user training across multiple districts. u-lits.com
- **School Dynamics – School Management Information System:** SaaS platform serving primary and secondary schools across Uganda. Built modules for student records, staff management, fee collection, examinations, timetabling, library, transport, and hostel. Developed role-based portals for parents, teachers, and administrators. Integrated Mobile Money/Visa payment gateways, SMS/email notifications, and reporting dashboards. schooldynamics.ug
- **Hospital Management System:** End-to-end healthcare information system for patient records (EHR), appointments, laboratory, pharmacy, billing, and insurance claims. Role-based portals for medical staff and administrators with data security measures. globalhealthrescue.com

- **Wildlife Offenders Database:** Information management system for Uganda Wildlife Authority — web dashboard and mobile app for wildlife crime data capture, offender tracking, case management, biometric integration, and enforcement analytics.
- **National Seed Tracking & Tracing System:** Digital platform for the Ministry of Agriculture to monitor seed distribution and quality control. Barcode/QR scanning for field verification, voucher management, and interoperable data exchange with government systems.
- **ICT for Persons with Disabilities Observatory:** Nationwide database and resource platform developed with Uganda Communications Commission and NUDIPU. Data analytics dashboards for disability-inclusive policy formulation.
- **Human Rights Reporting System:** Secure case documentation system for CEHURD with evidence capture, encrypted data storage, case tracking workflows, and trend analysis dashboards.
- **E-Commerce & Real Estate Platforms:** Scalable e-commerce platform (afrinventions.com) and real estate management system with inventory, payment integration, CRM, and administrative dashboards.

M-Omulimisa Uganda Limited

Lead Developer – Agrihub Mobile Application

2023 – 2024

Led development of an agricultural information platform integrating weather APIs, marketplace functionality, and mobile payment systems. Conducted user training across multiple districts.

Earlier Roles (2018 – 2021)

- **Full-Stack Developer, Gonevas.com** (2019–2021) – E-commerce web and Android app development, hosting and content management.
- **Freelance Web Developer** (2018–2021) – Websites and systems for IUIU Alumni Association, Double Tree Tours, Lukman Primary School, UgNews24.
- **Programming Instructor, YouTube** (2018–2022) – “Learn It With Muhindo” channel with 23,000+ subscribers; 200+ tutorials on web/mobile development.
- **Computer Studies Teacher, Sudais Muslim Secondary School** – Taught computer studies, served as S3 class teacher.

Technical Skills & Competencies

Systems & Infrastructure	Linux/Unix server administration, Docker, Nginx, Apache, AWS, Firebase, DigitalOcean, network configuration
Database Administration	MySQL, PostgreSQL, MongoDB, Firebase, SQLite; schema design, query optimisation, backup & recovery, data migration
Programming Languages	Python, PHP, JavaScript, Dart, Java, Kotlin, C#, SQL
Backend Frameworks	Laravel (Expert), Django, CodeIgniter, ASP.NET, RESTful API design & integration
Frontend & Mobile	React.js, Vue.js, Bootstrap, Tailwind CSS; Flutter/Dart (Expert), Android (Java/Kotlin), iOS
IS/ERP Platforms	Student information systems, school management, e-learning, hospital IS, livestock traceability
Security	SSL/TLS, JWT, role-based access control, data encryption, secure API development
DevOps & Integration	Docker, Git/GitHub, CI/CD; USSD/SMS gateways, GIS/GPS, payment gateways, barcode/QR, biometrics
Project Management	Agile/Scrum, stakeholder engagement, user training, technical documentation
Productivity Tools	MS Office Suite, Adobe Illustrator/Photoshop, Figma, WordPress, L ^A T _E X

Core Competencies for Information Systems Management

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| <ul style="list-style-type: none"> • IT strategy & digital transformation • Enterprise system design & administration • Database management & data governance • Network infrastructure & cybersecurity • ICT policy formulation & compliance • E-learning & academic systems management | <ul style="list-style-type: none"> • Student information system administration • Vendor & stakeholder management • Staff ICT training & capacity building • Disaster recovery & business continuity • IT budgeting & resource planning • System integration & interoperability |
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Languages

English: C1 Proficient Luganda: C1 Proficient Swahili: C1 Proficient Lukonzo: C1 Proficient (Native)

Ref: Common European Framework of Reference for Languages (CEFR)

Professional Development

- Advanced Laravel & Full-Stack Development – Continuous professional development through production project delivery
- Flutter & Cross-Platform Mobile Development – State management, offline architecture, multi-platform deployment
- RESTful API Design – Practical expertise from designing and deploying APIs for 10+ enterprise systems
- Database Administration – Hands-on MySQL and PostgreSQL management for national-scale systems
- Agile Project Management – Applied Scrum methodologies across government and NGO projects
- Technical Team Leadership – Led teams and conducted user training workshops across Uganda

Professional References

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I, the undersigned, certify that to the best of my knowledge and belief, this CV correctly describes myself, my qualifications, and my experience. I understand that any misrepresentation described herein may lead to my disqualification or dismissal, and I am available to undertake the assignment as required.

Name: Muhindo Mubaraka

Date: February 8, 2026

Signature:

