

John L. Maboko

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Portfolio: <https://john-maboko.medapps.or.tz> 

A Full-Stack Developer and Software Architect building technology solutions for social impact. Currently developing agricultural research and sustainability systems at the Alliance of Bioversity International and CIAT, with nearly a decade of experience across health tech, fintech, and international development. Led the development of REIMS, a national system that has served Tanzania's health research ethics committees for 6+ years across multiple institutions. Chevening Scholar (2023-24) with proven expertise in delivering scalable systems that address real-world challenges.

Skills

- **Programming Languages & Frameworks** (Python, Flutter, PHP, Javascript, NodeJS, Dart/Flutter, Laravel & Livewire),
- **Web Technologies** (HTML, CSS, Tailwind CSS, Bootstrap, GraphQL)
- **Cloud & DevOps** (Docker, Kubernetes, Git, Windows/Linux Server, Google Cloud Platform)
- **Mobile Development** (Flutter, Cross-platform development, Mobile app architecture)
- **Databases** (MySQL, PostgreSQL, SQL Server, Database Design & Replication)
- **Architecture & Design** (System Architecture, Microservices, RESTful APIs, Database design, Enterprise Solutions)
- **Development Practices** (Agile/Scrum, Test-driven development, AI-Assisted Development, Code Review)
- **AI & Automation** (Computer Vision, Language Models, Automation scripting)
- **Domain Expertise** (FinTech Solutions, Health Tech Systems, Agricultural Research Platforms, Payment Systems Integration)

Education

2023 - 2024

MSc. Behavioural and Data Science / University of Warwick, Coventry, UK.

Grade: Distinction

2014 - 2015

BSc. Information Technology & Business Information Systems / Middlesex University, London, UK.

Grade: First Class

2011 - 2013

Advanced Diploma in Software Engineering / Aptech Computer Education, Tanzania

Grade: Distinction

Awards

2023 - 2024

Chevening Scholarship / Foreign, Commonwealth and Development Office (FCDO), UK

Fully funded master's degree scholarship for outstanding international scholars.

Experience

NOVEMBER 2025 – PRESENT

Senior Associate – Software Developer / Alliance of Bioversity International and CIAT.

- Developing AI-powered agricultural tools as part of the Artemis project, including ONA app—a smartphone platform using computer vision to automate crop trait measurement and analysis for breeders and smallholder farmers across Africa.
- Designing and implementing scalable backend systems, web dashboards, and mobile applications on Google Cloud Platform to process field data in real-time, even in remote locations with limited connectivity.

MARCH 2025 – NOVEMBER 2025

Business Solutions Architect / Honora Tanzania Mobile Solutions Ltd (Mixx by Yas).

- Architected enterprise fintech solutions serving millions of users, including a comprehensive transaction statement system with GraphQL integration, automated verification, and password-protected delivery via email/SMS.
- Developed a mobile disbursement platform for TASAF (government social protection program) featuring facial biometric authentication and virtual number provisioning for beneficiaries without traditional bank accounts.
- Contributed to upgrading the BUSTISHA overdraft service for multiple lending partners and built an event ticketing mobile application. Recognized with Team of the Quarter award.

JANUARY 2023 – PRESENT

Software Development Consultant / Njozi Digital Labs (Co-founded).

- Led development of REIMS (Research Ethics Information Management System) deployed across multiple institutions including MUHAS, KCMUCo, ZAHRI, and COSECSA, transforming health research ethical approvals in Tanzania for 6+ years.
- Developed MedAlert, a web portal enabling anonymized SMS alerts to clinical trial patients, improving drug adherence and trial compliance for healthcare organizations).

NOVEMBER 2018 – DECEMBER 2022

Computer Programmer / National Institute for Medical Research, Tanzania.

- Led development of REIMS and other in-house systems using PHP, Laravel, JavaScript, and MySQL. Upgraded legacy VB.NET systems to modern web applications.
- Administered web, application, and database servers (Linux/Windows) and managed network infrastructure for 200+ employees.

AUGUST 2017 – OCTOBER 2018

IT Intern / National Institute for Medical Research, Tanzania.

As an IT intern, I maintained computer hardware, troubleshot IT-related issues, maintained the institution's website and maintained the LAN infrastructure. Additionally, I contributed to software projects and provided IT help-desk support.