

LAVU MWEEMBA

Systems Administrator | Infrastructure Engineer | Application Support Engineer

Ndola, Zambia | +260 971 531 796 | lavum27@gmail.com | [linkedin.com/in/lavu-mweemba-70b670184/](https://www.linkedin.com/in/lavu-mweemba-70b670184/) | github.com/lavu1

PROFESSIONAL PROFILE

Systems administrator with 5+ years of experience administering Linux and Windows servers, Active Directory, enterprise applications and database-backed platforms. Strong in backup/recovery, disaster-recovery preparation, access control, security monitoring, application management, software testing and MySQL/PostgreSQL database administration. Known for reliable institutional systems support and for reducing data conflicts and integrity issues by over 30% through improved database and recovery controls.

CORE TECHNICAL SKILLS

Server Administration: Linux, Windows Server, server installation/configuration, health checks, performance monitoring, disaster recovery

Identity and Access: Active Directory, user accounts, roles, passwords, access standards, application-level permissions

Databases: MySQL, PostgreSQL, data modelling, repositories, backup/recovery, storage optimization, integrity and availability controls

Application Support: Enterprise applications, student management systems, payroll/HR systems, job platforms, web hosting, release support

Security and Operations: Security monitoring, vulnerability tracking, policy enforcement, incident troubleshooting, documentation, user support

Development Support: PHP, Laravel, Node.js, Java, Python, Git, backend services, automation and notification services

Testing: Requirements review, test case design, functional/regression/usability testing, defect reporting

PROFESSIONAL EXPERIENCE

Systems Administrator | Zambia University College of Technology | Feb 2026 - Present | Ndola, Zambia

- Install, configure and maintain server infrastructure and system software, including health checks, troubleshooting, backups, disaster-recovery preparation and security monitoring.
- Develop and enforce policies, processes and procedures to improve network performance, system reliability, security and application availability.
- Manage usernames, roles, passwords and application-level access standards for servers, applications and devices.
- Plan and maintain enterprise data models, database repositories, data security, structural changes, storage optimization, integrity checks and recovery mechanisms.
- Support systems analysis and QA by reviewing requirements, preparing test scenarios, assessing usability/database impact and documenting reports, guidelines and manuals.

Software Engineer | Zambia University College of Technology | Feb 2023 - Jan 2026 | Ndola, Zambia

- Administered Linux servers and Active Directory, performing installations, configurations, periodic health checks, backups, disaster-recovery tests and performance tuning.
- Developed, deployed and maintained PHP, Laravel, Java, Python and Node.js applications while managing user access, configuration and application standards.
- Designed and managed MySQL and enterprise databases, implementing data models, backup/recovery procedures and storage optimization that reduced data conflicts and integrity issues by over 30%.
- Reviewed, tested and documented systems, working with stakeholders on requirements, user training and system guidelines.

Quality Assurance Engineer | Flocash Limited | Jul 2021 - Feb 2023 | Ndola, Zambia

- Administered and maintained test/staging servers for payment applications, including health checks, backups and recovery drills.
- Reviewed software requirements and executed functional, regression and usability tests across backend services and payment workflows.
- Analysed defects, performance issues and database-impacting bugs; documented findings and coordinated with developers for fixes.

Software Developer | Northrise University | Jan 2021 - Jul 2021 | Ndola, Zambia

- Administered and optimised application and database servers, including installation, configuration, routine checks and performance tuning.

- Configured enterprise applications and backend services using PHP, Laravel, Java, Python and Node.js, with role-based access and permission controls.
- Managed database repositories, approved schema/data changes, backup/recovery routines and technical/user documentation.

SELECTED SYSTEMS AND APPLICATION PROJECTS

- **ZUT Student Management System and Website** - Supported deployment, database workflows, access roles, application standards, user documentation and website operations for Zambia University College of Technology. **Technologies:** Linux, PHP/Laravel, MySQL, application support zut.ac.zm/
- **Copperbelt University Student Management System** - Current development work on a database-backed student management system with academic records, role-based workflows and institutional reporting. **Technologies:** PHP/Laravel, MySQL, Node.js
- **People Plus Payroll System** - Payroll/HR system and website with employee/payroll workflows, database-backed records and web deployment. **Technologies:** PHP/Laravel, MySQL peoplesplussolution.com/
- **Application Notification and Automation Services** - Private Node.js services supporting mobile notifications, automation tasks and backend operations for mobile/web applications. **Technologies:** Node.js, JavaScript, APIs
- **Business and Public Websites** - Web platforms including Zambia Job Alerts, Tizibane HR, Axis Resources, Lamanga Ltd, Jungle Africa Ltd and other organizational websites. **Technologies:** Web hosting, PHP/Laravel, MySQL

EDUCATION

Master of Information Systems: Copperbelt University, Zambia | Jul 2023 - Present

Bachelor of ICT with Education: Copperbelt University, Zambia | Oct 2016 - Sep 2020

CERTIFICATIONS, TRAINING AND MEMBERSHIPS

Practical Cybersecurity for Internet Operators Workshop: ZAMREN / Network Startup Resource Center (NSRC), Livingstone, Zambia | 4-8 May 2026

Performance Management Training: Esoft Africa Limited, Ndola, Zambia | 24th June 2026

Duolingo English Test: Overall 120, CEFR B2 | Test taken Mar 2025

ICTAZ Associate Member: Information and Communications Technology Association of Zambia | Membership No. AS002874 | Registered May 2025

AWARDS

Best Reliable Employee: Zambia Federation of Employers / Zambia University College of Technology | May 2025

SELECTED PUBLICATIONS

- Cybercrime and social assistance: analyzing scam tactics and developing countermeasures - case study of developing country Zambia. *7th International Conference in Information and Communication Technology (ICICT), Dec 2025.* [Link](#)
- Leveraging information systems for climate change mitigation and adaptation: a case study of developing countries learning from developed countries. *7th International Conference in Information and Communication Technology (ICICT), Dec 2025.* [Link](#)

REFERENCES

Dr Maybin Lengwe

maybin.lengwe@cbu.ac.zm

+260 967331064

Copperbelt University

Dr Philimon Mumba

phimon.mumba@cbu.ac.zm

+260 979547655

Copperbelt University

Stephen Tembo

stephen187dev@gmail.com

+26097064480

Copperbelt University

Cain Chilima

caine.chilima@infratel.co.zm/cainechilima@gmail.com

+260 966682438

Infratel