

LAVU MWEEMBA

Full-Stack Developer | Backend Developer | Application 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

Full-stack developer and systems administrator with 5+ years of experience building, deploying and maintaining web, mobile and institutional information systems. Strong practical background in PHP, Laravel, JavaScript/Node.js, Java, Python, SQL, MySQL/PostgreSQL, Linux server administration, QA and database-backed applications. Built student management systems, HR/payroll systems, job platforms, business websites, mobile applications and private Node.js automation services. GitHub username: lavu1; 30+ private repositories and selected code samples available on request.

TECHNICAL SKILLS

Languages: PHP, JavaScript/Node.js, Java, Python, SQL

Frameworks and Platforms: Laravel, Node.js services, web applications, mobile applications, API/backend services

Databases: MySQL, PostgreSQL, data modelling, indexing, backup/recovery, integrity controls, storage optimization

Web and Mobile: Responsive websites, Android/iOS applications, job platforms, HR/payroll systems, institutional systems

Systems and DevOps Support: Linux, Windows Server, Active Directory, Git, deployments, server health checks, backups, disaster recovery

Testing and Documentation: Functional testing, regression testing, usability testing, test case design, defect reporting, user guides

PROFESSIONAL EXPERIENCE

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

- Administer Linux and Windows server infrastructure, enterprise applications, databases, access control, backups, security monitoring and availability for institutional systems.
- Develop and enforce application, data and access-management standards, including usernames, roles, passwords, data repositories and approved database changes.
- Support software testing and systems analysis by reviewing requirements, preparing test scenarios, assessing usability/database impact and producing user and technical documentation.
- Contribute to institutional platforms including the ZUT website and Student Management System, with focus on deployment stability, database integrity and user support.

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

- Developed, deployed and maintained PHP, Laravel, Java, Python and Node.js applications supporting core institutional services and business workflows.
- Designed and managed MySQL and enterprise databases, implementing data models, security controls, backup/recovery procedures and storage optimization that reduced data conflicts and integrity issues by over 30%.
- Administered Linux servers and Active Directory, performing installations, configurations, health checks, backups, disaster-recovery tests and performance tuning.
- Reviewed and tested new and existing software, documented findings and worked with stakeholders to align system behaviour with business and academic requirements.

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

- Tested payment applications and backend services across staging and test environments, executing functional, regression and usability tests.
- Prepared detailed test case scenarios, analysed defects and database-impacting bugs, and delivered clear feedback to developers for resolution.
- Administered test/staging servers, performing health checks, backups and recovery drills to support reliability and release readiness.

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

- Configured and maintained enterprise applications and backend services using PHP, Laravel, Java, Python and Node.js.
- Managed application/database servers, user roles, permissions, routine health checks, performance tuning and backup/recovery routines.
- Collaborated on systems analysis, software testing, defect review and technical/user documentation for deployed solutions.

SELECTED DEVELOPMENT PROJECTS

- **Student Management Systems - ZUT and Copperbelt University** - Built and maintained student records, access roles, database workflows, reporting and institutional support features; currently developing a Student Management System for Copperbelt University. **Technologies:** PHP/Laravel, MySQL, Node.js, Linux
- **People Plus Payroll System and Website** - Developed payroll/HR workflow features and web presence for People Plus Solution. **Technologies:** PHP/Laravel, MySQL, web deployment peoplesplussolution.com/
- **Zambia Job Alerts** - Built job-alert web/mobile components and supporting notification workflows for job listings and user engagement. **Technologies:** Web, mobile, Node.js notifications zambiajobalerts.com/
- **Mobile Applications** - 10+ Android/iOS applications, including Zambia Job Alerts, Stream Wave, Zambia Breaking News, Open Heart, To Do List and Puzzle; selected Android apps published on Google Play. **Technologies:** Mobile apps, backend services
- **Node.js Automation and Notification Services** - Private services used for mobile notifications, system automation and supporting backend operations across deployed platforms. **Technologies:** Node.js, JavaScript, APIs
- **Websites and Business Platforms** - Selected sites include zinstablog.com, zut.ac.zm, ZCAS University, Northern Eye Clinic, lamangaltd.com, axisresourceslimited.com, tizibane.com and jungleafricaltd.com. **Technologies:** PHP, Laravel, MySQL, hosting

Google Play samples: [Puzzle](#) | [To Do List](#) | [Zambia Job Alerts](#)

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

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

Available upon request.