

LAUZI BANDA

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PROFESSIONAL SUMMARY

Computer Science graduate with hands-on experience in software development, database management, IT systems, and technical support through enterprise internships and technical projects. Proficient in Python, Go, Java, JavaScript, React.js, Next.js, PostgreSQL, MySQL, Firebase, Bash, and PowerShell. Possesses strong problem-solving and teamwork capabilities with a proven academic record, ranking 5th out of 248 Computer Science students at the University of Zambia (2025).

TECHNICAL SKILLS

Programming:	Python, Go, Java, JavaScript, HTML, CSS, Bash/Shell Scripting
Frameworks & Web:	React.js, Next.js
Databases:	PostgreSQL, MySQL, Firebase
Tools & Platforms:	PowerShell, Microsoft Office, Google Colab, Docker, Git

PROFESSIONAL EXPERIENCE

ZESCO Limited — Information & Communication Technologies Directorate20 July 2026 – Present

IT Intern (World Bank Funded Women in STEM Programme)

- Gaining hands-on exposure to enterprise IT infrastructure, networking operations, and organizational IT systems.
- Participating in technical investigations, user support, and system maintenance activities across enterprise utility platforms.
- Developing a practical understanding of database administration and infrastructure reliability in a large-scale utility environment.

AgriPredict Zambia15 December 2025 – 20 July 2026

Software Development Intern

- Engineered backend microservices and API endpoints utilizing Go, PostgreSQL, and gRPC frameworks.
- Conducted software moderation workflow analysis, testing, debugging, and continuous feature integration.
- Collaborated in agile software development processes to enhance system performance and maintainability.

Smart Zambia Institute25 November 2024 – 25 February 2025

Systems Support Intern

- Assisted in end-to-end functionality testing for the government Constituency Development Fund (CDF) digital system.
- Conducted usability training sessions for CDF committee members and operational stakeholders.
- Collaborated with technical teams to identify, document, and resolve system usability and workflow issues.

EDUCATION

University of ZambiaFeb 2022 – Dec 2025

Bachelor of Science in Computer Science

Mkushi Secondary SchoolJan 2017 – Nov 2019

ECZ Grade 12 Certificate

CERTIFICATIONS & TRAINING

- IT Essentials** — Cisco Networking Academy (February 2024)
- Introduction to Networks** — Cisco Networking Academy (January 2024)
- Linux Essentials** — Cisco Networking Academy (August 2023)

SELECTED PROJECTS

School Central Information HubFinal Year Project

Architected a web-based portal for academic schedules, school announcements, and event management using React.js, Next.js, and Firebase (Firestore & Cloud Messaging for real-time notifications).

Online Book Store PlatformFull-Stack Application

Developed an e-commerce book platform featuring user authentication, shopping cart workflows, dynamic book recommendation logic, and Firestore database integration using React.js.

System Security & Audit Analysis ToolSystem Administration

Created a Bash & PowerShell automation solution to perform system health and security audits, checking critical service statuses, software patch levels, firewall rules, and password policies.

AI Checkers Game Agent

Artificial Intelligence

Built an intelligent checkers playing agent utilizing heuristic search algorithms (Minimax, Alpha-Beta Pruning) in Python and Java to evaluate game states and play competitively against humans.

ACHIEVEMENTS, LEADERSHIP & MEMBERSHIPS

- **Academic Ranking:** Ranked 5th out of 248 Computer Science students at the University of Zambia (2025 Class).
- **Leadership:** Served as Publicity Secretary for ICTAZ (UNZA Chapter) during the 2024–2025 executive term.
- **Memberships:** ICT Association of Zambia (ICTAZ) | UNZA Computer Science Society | Inspire Her Zambia

LANGUAGES

English: Fluent | **Nyanja:** Intermediate | **Bemba:** Basic

REFERENCES

Available on request.