

Andrew Lucio Mbewe

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Education

- **Feb 2025 – Dec 2025**
Postgraduate Diploma in Computer Science, University of Zambia.
- **Feb 2023 – May 2026**
Master of Science in Physics, University of Zambia, Lusaka.
- **Aug 2018 – June 2022**
Bachelor of Science in Physics, Mulungushi University, Kabwe.
- **2015 – 2017**
National School Certificate, Lusaka Boys Secondary School, Lusaka.

Certifications

- Cisco Certified Network Associate (CCNA) Level 1.

Work Experience

- **Apr 2026 – Present**
Software Engineer — Mid-Senior, Penda Digital, Lusaka, Zambia.
 - Working as a Software Engineer within the Engineering team on the Penda Suite, a growing ecosystem of SaaS applications for African businesses.
 - Primarily developing backend systems using PHP Laravel.
 - Handling DevOps responsibilities for application deployment, infrastructure support, and system reliability.
 - Serving as the main mobile developer, designing and developing mobile applications based on client requests through the company.
- **Jan 2023 – Present**
Co-Founder and Lead Software Engineer, Goliath Financials, Lusaka, Zambia.
 - Functioning as a Full-Stack Developer, leading the end-to-end software development lifecycle including system architecture, backend engineering, and mobile integration.
 - Spearheaded the product design and UI/UX strategy, creating user-friendly digital products to simplify investing for both new and experienced investors.
 - Architected the full-stack infrastructure and selected the tech stack (Django, Django REST Framework) to ensure high reliability, scalability, and financial compliance.

- Designed secure APIs and identity verification systems (OTP, device trust) for a web-first investment platform for the Lusaka Securities Exchange.
- **Dec 2025 – March 2026**
DevOps / Backend Engineer, Designhub Marketing Agency, Lusaka, Zambia.
 - Served as a Full-Stack Engineer responsible for the design, development, and maintenance of scalable web platforms for multiple client projects.
 - Defined system designs and architectural frameworks for RESTful APIs and cloud-native applications.
 - Handled tech stack selection and UI/UX collaboration to deliver high-quality digital solutions for agency clients.
 - Implemented cloud infrastructure on AWS and automated CI/CD pipelines to improve deployment efficiency and system stability.
- **Dec 2024 – March 2025**
Candidate Fleet Controller, Alistair Group, Lusaka, Zambia.
- **Jan 2024 – Nov 2024**
Physics Tutor, University of Zambia, Lusaka, Zambia.

Skills

- **Programming Languages:** HTML, CSS, TypeScript, PHP, Python, Java, C++, SQL, JavaScript.
- **Frameworks & Libraries:** Laravel, Django, Django REST Framework, Next.js, React, React Native, Expo, Tailwind CSS, Chart.js.
- **Full-Stack Engineering:** System Architecture, Product Design (UI/UX), Tech Stack Selection, API Design, Database Management.
- **Cybersecurity & Networking:** CCNA Level 1; Network Security, Vulnerability Testing, Penetration Testing, MFA, and SSL/TLS management.
- **DevOps & Tools:** AWS, Docker, CI/CD (GitHub Actions), Linux Sysadmin, Shell scripting, Gunicorn, Railway, Vercel.
- **Scientific Computing:** MATLAB, LaTeX, AI & Computational Research (Cancer diagnosis research).

Projects

1. Goliath Financials – Stock Market Data Analytics & Investing Platform

Tech: Django, React Native, Next.js, C++ (analytics engine)

<https://goliathfinancials.com>

- Architected and developed the entire full-stack platform focused on the Lusaka Stock Exchange (LuSE), providing retail investors with institutional-grade tools.
- Implemented per-company financial models for 22 listed companies and a portfolio management engine with XIRR calculations.

- Built a secure authentication framework and a freemium subscription model with manual payment verification.

2. **Superlink – E-commerce Platform**

Tech: Django, Next.js, React Native

<https://superlinkafrica.com>

- Developed a full-stack e-commerce platform enabling secure commercial transactions across Africa.
- Conducted comprehensive vulnerability testing and hardened the payment gateway against exploits.

Referees

1. **Levison Malawo**

Goliath Financials Limited, Director

e-mail: malawolevison@gmail.com — mobile: +260 96 9392496

2. **Dr. M. Mwalaba**

University of Zambia, Dept. of Physics

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3. **Dr. M. Chisapi**

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