

## CHARLES MWANIKI

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**GitHub:** <https://github.com/mwanikigachanja>

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### Personal profile

Charles Mwaniki is an ALX Certified Backend Software Engineer, AWS Certified Cloud Practitioner, and a skilled Data Engineer with a passion for solving complex problems through technology. With a solid foundation in software development, cloud computing, and data analytics, Charles is committed to delivering efficient, scalable, and user-centric solutions. His experience spans across various sectors, including real estate, insurance, and technical support, where he has developed and maintained mission-critical systems.

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### Professional Experience

#### **Product Promotion Officer - Digital Marketing & Technical Support Specialist**

Kenya Seed Company Ltd | Nov 2023 – Present

- Spearheaded digital marketing strategies, contributing to a 30% increase in customer engagement through the creation of promotional content including videos and company profiles.
- Designed and developed the SeedInsight application, which leverages data analytics to provide tailored seed recommendations based on users' locations and environmental conditions.
- Provided customer support and resolved technical issues, improving customer satisfaction by 25%.

#### **Walmart USA Advanced Software Engineering Virtual Experience Program on Forage - September 2024**

- Completed the Advanced Software Engineering Job Simulation where I solved difficult technical projects for a variety of teams at Walmart.
- Developed a novel version of a heap data structure in Java for Walmart's shipping department, showcasing strong problem-solving and algorithmic skills.
- Designed a UML class diagram for a data processor, considering different operating modes and database connections.
- Created an entity relationship diagram to design a new database accounting for all requirements provided by Walmart's pet department.

## **Freelance IT Specialist**

Independent Contractor | Jan 2019 – Oct 2023

- Developed the Elcent Realtors Web MIS, an all-in-one solution for property management, boosting operational efficiency by 40%.
- Delivered various digital solutions to clients in different industries, focusing on system automation, backend development, and cloud integration.

## **System Administrator Intern**

Tusker Mattresses Ltd | June 2017 – Dec 2018

- Managed and maintained server environments, ensuring optimal performance and uptime for mission-critical applications.
- Automated daily administrative tasks using Python scripts, reducing manual workload by 50%.
- Provided first-line technical support to over 300 users, resolving 95% of issues within the first hour.

## **System Admin Intern**

AAR Insurance Kenya | Jan 2017 – Apr 2017

- Assisted in server installation and maintenance, contributing to a 20% improvement in system performance.
- Monitored and managed system backups, ensuring data integrity and successful disaster recovery tests.
- Supported the IT team in configuring user accounts and permissions, maintaining a secure and efficient working environment.

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## **Technical Skills**

- **Backend Development:** Python, JavaScript, PHP, Node.js
  - **Database Management:** MySQL, PostgreSQL, MongoDB
  - **Cloud Computing:** AWS (EC2, S3, Lambda, RDS), Azure
  - **Data Analysis:** Python, Power BI, SQL
  - **Technical Support:** System troubleshooting, hardware and software maintenance
  - **System Administration:** Linux/Windows Server environments, virtualization (VMware, Hyper-V)
  - **Automation & Scripting:** Python, Bash
  - **Version Control:** Git, GitHub
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## Education & Professional Qualifications

- **ALX Software Engineering Program** | ALX Africa | 2024
  - **AWS Certified Cloud Practitioner** | Amazon Web Services | 2023
  - **Bachelor of Science in Information Sciences** | Moi University | 2019
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## Projects

- **SeedInsight Application:** Developed a web-based tool that provides seed recommendations based on user location and environmental data. The system integrates with weather APIs for real-time data and includes a comprehensive database of seed types, varieties, and prices.
  - **Elcent Realtors Web MIS:** Designed and implemented a property management system with features such as property listings, client management, and financial tracking, which significantly improved business operations for the client.
  - **Kenya Seed Company Digital Solutions:** Developed promotional materials, including videos and company profiles, for major events such as the Strategic Plan 2023-2028 launch and the annual marketing meeting.
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## Soft Skills

- Strong problem-solving abilities
  - Excellent written and verbal communication
  - Team collaboration and leadership
  - Ability to work under tight deadlines
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## References

*Available upon request.*