

ARKWINGS CYPRIAN ABALA

SOFTWARE ENGINEER | IT ASSISTANT



PROFESSIONAL EXPERIENCE

ICT Intern (Ministry of Education – Digital Literacy Program) 6/2024

As an ICT Intern at the Ministry of Education's Digital Literacy Program, I provided technical support, trained teachers, managed networks, developed e-learning content, supported project implementation, maintained equipment and ensured effective stakeholder communication.

IT Technician/Trainer (Amritlal S Shah Wholesalers) 6/2023 – 5/2024

I provided technical support, managed networks, maintained systems, trained staff, managed IT inventory, server management and documented IT processes.

Software Testing and Automation Internship Program (Feb/2024)

I learned about software testing methodologies, developed automated test scripts, identified and reported bugs, and collaborated with team members on enhancing software quality.

Industrial Attachment (5/2022 – 8/2022)

Attaché at the ministry of ICT - Uasin Gishu county government, Huruma Sub – county hospital.

I provided IT support, managed network infrastructure, maintained patient data systems, trained staff on digital tools, assisted with ICT projects, and prepared documentation to enhance hospital operations.

EDUCATION

Rongo University (7/2018 – 12/2022) | Rongo, Kenya

Bachelor of Science in Computer Science

ALX (African Leadership Experience) (7/2023 – 8/2023)

Software Engineering with a specialization in Backend Development

Terige High School (2/2014 – 12/2017)

Kenya Certificate of Secondary Education.

SKILLS

Languages: Python, JavaScript, C, HTML, CSS

Frameworks: Node.js, Express, Flask, Django

Databases: MongoDB, Redis, MySQL

Tools: Git, Linux (Shell Scripting), Docker, Trello, NGINX

Concepts: Restful APIs, Authentication, Data Storage

Problem Solving: Data Structures & Algorithms

Computer Networking: Troubleshooting & Configuration

Software Testing: Unit & Integration testing

Technical Support: IT Assistance

Collaboration: Excellent communication Skills

Project Management

COURSES

Software Development (6/2022 – 12/2022)

- Power Learn Project Pioneer Cohort for the software development scholarship.

Blockchain & Distributed Systems (Junior Developer Level)

Africa Blockchain Centre (6/2022 – 12/2022)

- Assisted in developing decentralized applications (dApps) on platforms like Ethereum.

Software Engineering (Backend Engineering)

ALX (African Leadership Experience) (7/2023 – 8/2023)

- Developed full-stack applications with user authentication, CRUD operations, and session management.
- Implemented backend services using Node.js, Express, MongoDB, Flask and MySQL.
- Managed data caching with Redis to improve performance.
- Focused on Security and user management.
- Collaborated with the development team to troubleshoot and resolve issues.

Software Testing and Automation (2/2024 – 2/2024)

- Conducted manual and automated software testing to ensure functionality.
- Developed and executed test scripts to identify and report bugs.
- Collaborated with team members to enhance software quality.
- Documented testing procedures and outcomes for future reference.

ACHIEVEMENTS

Power Learn Project Hackathon (13/2022 – 13/2022)

First runners up award-winning team

LEADERSHIP

School President (Terige High School) – (2016 – 2017)

Cabinet Secretary Sports and Entertainment (Rongo

University) -(2021/2022)

LANGUAGES

English

Full Professional Proficiency

Swahili

Full Professional Proficiency

INTERESTS

Software Engineering

DevOps

Machine Learning Engineering

AI & ML

BLOCKCHAIN