

# Khalfan Athman Khalfan

Home-based, Nairobi, Kenya

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## Professional Summary

A highly skilled Software Engineer (Backend Specialization) and Network Engineer with 4+ years of experience in IT infrastructure and full-stack development. Certified in Oracle Cloud (OCI), AWS Cloud Practitioner and pursuing AWS Solutions Architect and Data Science, with expertise in Python, C and Linux systems. Passionate about building scalable solutions, optimizing systems, and contributing to open-source projects.

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## Skills

- **Programming Languages:** C, Python, Bash, basic Java
  - **Operating Systems:** Linux (Ubuntu, Debian), Windows
  - **Networking:** TCP/IP, Routing Protocols, Network Security, Firewalls
  - **Version Control:** Git, GitHub
  - **Scripting & Automation:** Python, Bash, Network Automation
  - **Kernel Fundamentals:** Linux kernel basics, kernel debugging, patching
  - **Tools & Technologies:** Wireshark, Cisco Routers & Switches
  - **Soft Skills:** Strong communication, collaborative team member, highly adaptable, organized.
  - **CI/CD:** Use of Jenkins, write the pipeline code.
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## Experience

### Assistant IT Manager (Network Engineer)

JAMIA MOSQUE COMMITTEE • ASSISTANT ICT MANAGER – Nairobi, Kenya

January 2022 – Present

- Configured, maintained, and secured enterprise-level network infrastructures.
- Troubleshoot network issues, ensuring system uptime and performance.
- Collaborated with cross-functional teams to design, implement, and support network solutions.
- Implemented automation scripts using Python and Bash for network configuration and monitoring tasks.
- Led network security assessments, including firewall configuration and security policy enforcement.
- Provided technical support and training to junior network staff.

*STATE DEPARTMENT FOR LIVESTOCK- ICT OFFICER• – Nairobi, Kenya  
January 2020 – July 2022*

- Support network users.
- Improve user's performance through training, attention to detail problem-solving methods.
- Assist with the preparation and installation of network and network equipment.
- Resolving basic network specific problems in a professional courteous manner.
- Inventory and order network devices.
- I have no problem configuring new network equipment and connections.

*CAMARA EDUCATION LTD - COMPUTER TECHNICIAN • – Mombasa, Kenya  
May 2019 – Aug 2019*

- I have no problem configuring new network equipment and connections.
- Installed/configured Linux (Edubuntu) on 300+ educational devices.
- Repaired hardware and provided IT support for 20+ schools.

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## **Education & Certifications**

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### **Certificate in Software Engineering**

*ALX AFRICA – Graduated: October 2024*

- Covered topics including operating systems, programming in C, networking, Linux kernel fundamentals, and system development.
- Gained experience in developing and debugging software at the kernel level using C and Python.

### **Bachelor of Science in Computer Science**

*International University of Africa – Graduated: November 2018*

- Specialized in network engineering, with courses in networking, operating systems, and network security.

### **Certifications:**

- Specialized in network engineering, with courses in networking, operating systems, and network security
- Oracle Cloud Infrastructure (OCI) Associate (2022).
- Coursera: Python, SQL, Relational Databases.
- ALX: ProDev (Backend engineer)
- ALX: Professional Foundations.
- AWS Cloud Practitioner.
- AWS Solutions Architect (in progress).
- Data Science(In Progress)

## KCSE

*Tudor day Secondary School – Graduated: November 2013*

- Studied mathematics, physics, chemistry and biology, Arabic, English, Kiswahili and Geography.
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## Projects

### 1. Simple Linux Shell (Completed)

- Developed a basic Linux shell in C that supports command execution, input/output redirection, and background processes.
- Implemented system calls and process management, providing a solid foundation in understanding how operating systems manage processes.

### 2. Funding Manager System for Groups (In Progress)

- Building a system to help groups manage contributions, loans, and fund allocations efficiently.
- Implemented user authentication and transaction tracking features, using Flask Framework and a MySQL database.

### 3. I'tikaf Registration System (Ongoing)

- Designing and developing an online platform for I'tikaf registration, enabling event management and user registration with role-based access control.
- Utilized React, Next.js, and MySQL for building a scalable system, integrating user profile management and document uploads.

### 4. Voting System API:

The primary objectives of the poll system backend are: - **API Development:** Build APIs for creating polls, voting, and fetching results. - **Database Efficiency:** Design schemas optimized for real-time result computation. - **Documentation:** Provide detailed API documentation using Swagger.

Technologies Used

- **Django:** High-level Python framework for rapid development.
- **PostgreSQL:** Relational database for poll and vote storage.
- **Swagger:** For API documentation.

## Languages

- English (Fluent)
- Arabic
- Swahili (Native)

## References

1. Sally Wellah  
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