

# Haruna Umar Adoga

5 Carolside Drive, Glasgow, UK.

Systems | Networks | Cloud Engineer

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## Experience

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### Networks & Systems Engineer

November 2016 – Present

*Freelance*

- Networks, Linux and Windows server administration
- Designing and managing Cisco networks for LAN & WAN connectivity
- Carrying out infrastructure migration to AWS Cloud
- Performing Cloud infrastructure monitoring and configuration
- Using Ansible for day-to-day configuration management

### Graduate Assistant (Computing) - part-time

Feb 2021 – Present

*University of Glasgow School of Computing Science*

- Carrying out web application development with Python-Django framework
- Providing technical support to students in troubleshooting Windows, Mac/Unix, and Linux systems
- Systems and Networks support for Masters level students at the University of Glasgow
- Providing practical and theoretical instruction for Information Technology course for MSc
- Technical documentation writing and white papers

### Systems Administrator - Instructor

May 2012 – December 2019

*Federal University Lafia*

- Performed Linux/UNIX system administration and design including storage and web server hosting
- Carried out daily troubleshooting of Windows/Unix clients' network connectivity issues
- Migrated on-prem servers (storage, web, DB) to AWS Cloud
- Handled the configuration and troubleshooting of Cisco routers and switches for LAN/WAN connectivity

### Technical Support Representative

March 2011 – May 2012

*Airtel Telecommunications*

- Actively processing technical service requests from Airtel subscribers
- Served as a tier 1 skilled service desk personnel in incident management
- Carried out hierarchical escalation to tier 2 support engineers for resolution
- Proffered solutions to subscribers to resolve service disruptions, based on SLA

## Technical Skills Summary

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**Programming & Scripting:** Python, Bash, HTML, CSS, SQL

**Cloud & Configuration Management :** AWS, Ansible, Terraform

**Networking :** LAN, WAN, VPC, NFV, SDN, BGP, OSPF, Switching, NAT, Routing & VxLANS, Spine-Leaf

**Operating Systems :** RedHat Linux 8, Ubuntu Server, CentOS 7 & 8, Kali Linux, macOS, Windows

**Security :** ACLs, Snort IDS, Active Directory

**Developer Tools/Frameworks:** Git, Docker, Django, GitLab & Jenkins CI/CD

**Applications:** Wireshark, VMWare, KVM, VirtualBox, MS Visio, MS Project, Overleaf

**Libraries:** NetworkX, Requests, Numpy, Matplotlib, Scapy, Selenium, Beautiful Soup, Scrapy

## University Education

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### University of Glasgow

Glasgow, UK

*PhD. Computing Science*

*Jan 2020 to Sept 2023*

### University of Hertfordshire

Hertfordshire, UK

*MSc. Computing Science*

*July 2014 to Jan 2016*

### University of Maiduguri

Maiduguri, Nigeria

*Beng. E & E Engineering*

*Last updated on December 5, 2022*

*April 2004 to Dec 2009*  
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## IT Certifications

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<b>Amazon Web Services (AWS) Solutions Architect – Associate</b> <i>Amazon Inc.</i>	In View
<b>Amazon Web Services (AWS) Cloud Practitioner</b> <i>Amazon Inc.</i>	July 2022
<b>Cisco Certified Network Professional (CCNP R &amp; S)</b> <i>Cisco Systems</i>	Feb 2011 - Expired

## Selected Personal Projects

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<b>Testbed design and evaluation of NFV Platforms</b>   <i>SDN, NFV, UNIX, OpenFlow, Docker</i> <ul style="list-style-type: none"><li>• Carried out the performance evaluation of commonly used virtual network functions in ISP environments</li><li>• Real testbed design on commodity servers (UNIX) for hosting network functionalities</li><li>• KVM server virtualization</li></ul>	June 2021
<b>Hybrid Network Functions Deployment on Commodity Servers</b>   <i>Routing, Firewall, IDS</i> <ul style="list-style-type: none"><li>• Virtualization, Switching, stateful and stateless firewall deployments</li></ul>	September 2020
<b>Network and Server Penetration Testing</b>   <i>Unix, Windows, Server Security</i> <ul style="list-style-type: none"><li>• Carried out a complete pentest lifecycle on a LAN with Linux &amp; Windows Servers</li></ul>	November 2016

## Selected Publications - Documentation skills | *NFV, Switching, UNIX, Virtualization, Containers*

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<b>Network Function Virtualization Frameworks: Review of Challenges</b> <i>MDPI Future Internet Journal – <a href="#">View publication</a></i>	Feb 2022 <i>Basel, Switzerland</i>
<b>Performance Evaluation of Virtual Network Functions</b> <i>IEEE Network Softwarization Conference – <a href="#">View publication</a></i>	July 2022 <i>Milan, Italy</i>