

# Haruna Umar Adoga

5 Carolside Drive, Glasgow, UK.

Systems | Networks | Cloud Engineer

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## Summary

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Haruna Adoga is a well-experienced systems and networks engineer with a mix of both research and industry experience.

## 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, BeautifulSoup, Scrapy

## Education

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**University of Glasgow**  
*PhD. Computing Science*

Glasgow, UK  
*Jan 2020 to Sept 2023*

**University of Hertfordshire**  
*MSc. Computing Science*

Hertfordshire, UK  
*July 2014 to Jan 2016*

**University of Maiduguri**  
*Beng. E & E Engineering*

Maiduguri, Nigeria  
*April 2004 to Dec 2009*

## IT Certifications

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**Amazon Web Services (AWS) Solutions Architect – Associate**  
*Amazon Inc.*

In View

**Amazon Web Services (AWS) Cloud Practitioner**  
*Amazon Inc.*

July 2022

**Cisco Certified Network Professional (CCNP R & S)**  
*Cisco Systems*

Feb 2011 - Expired

## Selected Personal Projects

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**Testbed design and evaluation of NFV Platforms** | *SDN, NFV, UNIX, OpenFlow, Docker*

June 2021

- Carried out the performance evaluation of commonly used virtual network functions in ISP environments
- Real testbed design on commodity servers (UNIX) for hosting network functionalities
- KVM server virtualization

**Hybrid Network Functions Deployment on Commodity Servers** | *Routing, Firewall, IDS*

September 2020

- Virtualization, Switching, stateful and stateless firewall deployments

**Network and Server Penetration Testing** | *Unix, Windows, Server Security*

November 2016

- Carried out a complete pentest lifecycle on a LAN with Linux & Windows Servers

## Selected Publications - Documentation skills

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| *NFV, Switching, UNIX, Virtualization, Containers*

**Network Function Virtualization Frameworks: Review of Challenges**  
*MDPI Future Internet Journal – [View publication](#)*

Feb 2022  
*Basel, Switzerland*

**Performance Evaluation of Virtual Network Functions**  
*IEEE Network Softwarization Conference – [View publication](#)*

July 2022  
*Milan, Italy*