

# Haruna Umar Adoga

5 Carolside Drive, Glasgow, UK.

Networks | Systems | Cloud Engineer

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## Experience

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### Networks & Systems Engineer

November 2016 – Present

*Freelance*

- Designing and managing Cisco networks for LAN & WAN connectivity
- Carrying out infrastructure migration to AWS Cloud
- Cloud infrastructure monitoring and configuration
- Using Ansible for day-to-day configuration management
- Systems/Networks design and administration
- SD-WAN security with Fortinet

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

Feb 2021 – Present

*University of Glasgow School of Computing Science*

- 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*

- Linux/UNIX system administration and design
- Troubleshooting Windows/Unix clients' network connectivity issues
- UNIX web and file server hosting
- Migrated on-prem servers (storage, web, DB) to AWS Cloud
- Configuring and troubleshooting routers and switches for LAN/WAN connectivity
- Network cabling for Cisco systems connectivity

### Technical Support Representative

March 2011 – May 2012

*Airtel Telecommunications*

- Processing technical service requests from Airtel subscribers
- Serving as a tier 1 skilled service desk personnel in incident management
- Carrying out hierarchical escalation to tier 2 support engineers for resolution as part of incident management when needed
- Proffering solutions to subscribers to resolve service disruptions, based on SLA
- Placing outbound calls to subscribers as part of efforts to follow up on incident status

## Technical Skills

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**Programming & Scripting:** Python & Bash

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

**Networking :** LAN, WAN, VPC, Subnetting, Switching, NAT, Routing & VLANs

**Frameworks:** Django, Docker

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

**Security :** ACLs, Snort IDS, Fortigate

**Developer Tools:** Git, Python, Django, HTML, CSS, MySQL

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

**Libraries:** NetworkX, Requests, Numpy, Matplotlib, Scapy, Selenium, BeautifulSoup, Scrapy

## 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

## University Education

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<b>University of Glasgow</b> <i>PhD. Computing Science</i>	Glasgow, Scotland, UK <i>Jan 2020 to April 2023</i>
<b>University of Hertfordshire</b> <i>MSc. Computing Science</i>	Hertfordshire, England, UK <i>July 2014 to Jan 2016</i>
<b>University of Maiduguri</b> <i>Beng. E &amp; E Engineering</i>	Maiduguri, Nigeria <i>April 2004 to Dec 2009</i>

## Selected Personal Projects

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<b>Testbed design and evaluation of NFV frameworks</b>   <i>SDN, NFV, UNIX, OpenFlow, Docker</i> <ul style="list-style-type: none"><li>• Performance evaluation of virtual network functions</li><li>• Real testbed design on commodity servers (UNIX)</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</li></ul>	September 2020
<b>Network and Server Penetration Testing</b>   <i>Unix, Windows, Server Security</i> <ul style="list-style-type: none"><li>• Pentest lifecycle on LAN with Linux &amp; Windows Servers</li></ul>	November 2016

## Relevant Networks Publications | *Routing, Switching, UNIX, Virtualization, OpenFlow, Docker*

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<b>Performance Evaluation of Virtual Network Functions Frameworks</b> <i>IEEE NetSoft 2022 Conference – <a href="#">View publication</a></i>	July 2022 <i>Milan, Italy</i>
<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>