# Haruna Umar Adoga

5 Carolside Drive, Glasgow, UK.
Systems | Networks | Cloud Engineer
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## Experience

**Networks & Systems Engineer**                                      November 2016 – Present
*Freelance*
- Linux and Windows server administration
- 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
- Windows & 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
- 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 Summary

**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 Server
**Security** : ACLs, Snort IDS, Fortigate, Active Directory
**Developer Tools**: 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

**University of Glasgow**                                                   Glasgow, UK
*PhD. Computing Science*                                          *Jan 2020 to April 2023*


**University of Hertfordshire**                                    Hertfordshire, UK
*MSc. Computing Science*                                          *July 2014 to Jan 2016*


**University of Maiduguri**                                        Maiduguri, Nigeria
*Beng. E & E Engineering*                                         *April 2004 to Dec 2009*

## IT Certifications

**Amazon Web Services (AWS) Solutions Architect − Associate**              In View
*Amazon Inc.*

**Amazon Web Services (AWS) Cloud Practitioner**                           July 2022
*Amazon Inc.*

**Cisco Certified Network Professional (CCNP R & S)**           Feb 2011 - Expired
*Cisco Systems*

## Selected Personal Projects

**Testbed design and evaluation of NFV frameworks** | *SDN, NFV, UNIX, OpenFlow, Docker*          June 2021
- Performance evaluation of virtual network functions
- Real testbed design on commodity servers (UNIX)
- KVM server virtualization

**Hybrid Network Functions Deployment on Commodity Servers** | *Routing, Firewall, IDS*          September 2020
- Virtualization, Switching, stateful and stateless firewall

**Network and Server Penetration Testing** | *Unix, Windows, Server Security*          November 2016
- Pentest lifecycle on LAN with Linux & Windows Servers

## Selected Publications | *Linux, NFV, Switching, UNIX, Virtualization, OpenFlow, Docker*

**Network Function Virtualization Frameworks: Review of Challenges**          Feb 2022
*MDPI Future Internet Journal – View publication*                            *Basel, Switzerland*
**Performance Evaluation of Virtual Network Functions**                      July 2022
*IEEE Network Softwarization Conference – View publication*                  *Milan, Italy*