

Haruna Umar Adoga

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Systems | Networks | Cloud Engineer

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ABOUT

Haruna Adoga has over ten years experience in systems and networks design/administration. He also has reasonable experience and training as a researcher and lecturer in computing science.

Experience - IT

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

Systems Administrator

Sept. 2014 – 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

Experience - University Teaching

University of Glasgow

February 2021 – Present

Graduate Teaching Assistant

- Tutoring undergraduate students on Human-Computer Interaction and Information Management
- Tutoring level 2 students on Networks and Operating Systems Essentials 2
- Providing technical support to students in troubleshooting problems with Windows, Mac/Unix, and Linux systems
- Assisting with the marking of coursework and examination for MSc level and undergraduate courses
- Teaching practical aspects of advanced programming using Python for MSc students
- Practical and theoretical teaching of Information Technology course for MSc – Web development with Python (Django framework)
- Working as a marking assistant to help with grading undergraduate and postgraduate students' assessments

Federal University of Lafia

May 2012 – Dec 2019

Lecturer

- Delivering lectures in computer programming using Python and Java
- Presenting theoretical and practical lectures on networks, distributed systems, and system administration
- Carrying out Linux/UNIX system administration
- Assisting with routine systems maintenance by managing updates and patches
- Helping students and staff with troubleshooting Windows, Mac, Linux, and Mobile related tasks
- Teaching undergraduate and postgraduate diploma students courses in networking and programming
- Designing and configuring networks for LAN and WLAN access
- Technical writing, documentation and white paper writing

Education

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

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

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

IT Certifications and Professional Memberships

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

British Computer Society (BCS)

BCS, UK

2022 - present

Institute of Electrical and Electronics Engineers (IEEE) No: 92735619

IEEE, USA

2014 - present

Nigeria Computer Society (NCS) No: 10536

NCS, Nigeria

2018 - present

Nigerian Society of Engineers (NSE). No: G12769

NSE, Nigeria

2011 - present

Selected Personal Projects

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

Service and Volunteering

University of Glasgow

May 2021 – May 2022

School of Computing Science Systems Section Seminars

- Scheduling weekly seminars for the group

IEEE Journal

February 2021 – Present

Journal reviewer

- Reviewing conference and journal articles for the IEEE

AFRINIC

May 2018 – Present

Policy Development Working Group Member

- Developing and discussing number resource policy proposals that AFRINIC implements towards distributing IPv4, IPv6 and ASN resources in Africa.

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

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