Haruna Umar Adoga

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Networks | Systems | Cloud Engineer
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Experience

Freelance Networks/Systems Engineer — November 2016 – Present
Freelance — *Glasgow, UK*

- Routing and Switching
- Cloud infrastructure management
- LAN/WAN design and management
- Systems and Networks Automation
- Systems/Networks design and administration
- Unix systems administration

Graduate Teaching Assistant (part-time) — Feb 2021 – Present
University of Glasgow — *Glasgow, UK*

- Web application development with Python-Django framework
- Providing technical support to students in troubleshooting Windows, Mac/Unix, and Linux systems
- Systems and Networks tutorial for Masters level students
- Advanced Programming using Java
- Practical and theoretical teaching of Information Technology course for MSc
- Technical writing, documentations and white papers writing

Lecturer - System Administrator — May 2012 – December 2019
Federal University Lafia — *Lafia, Nigeria*

- Linux/UNIX system administration and teaching
- Troubleshooting Windows clients' network connectivity issues
- Configuring and troubleshooting routers and switches for LAN/WAN connectivity
- Network cabling for Cisco systems connectivity

Technical Customer Support Representative — March 2011 – May 2012
Airtel Telecoms — *Abuja, Nigeria*

- Processing technical service requests from 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 that are having a disruption with service delivery, based on SLA
- Placing outbound calls to subscribers as part of efforts to follow up on incident status

Technical Skills

Scripting: Python & Bash
Cloud and Automation : AWS, Ansible, Terraform
Networking : LAN, WAN, VPC, Subnetting, Switching, VLANS
Frameworks: Django, Docker
Operaing Systems : RedHat Linux 8, Ubuntu Server, CentOS 7 & 8, macOS, Windows
Developer Tools: Git, Python, Django, HTML, CSS, MySQL
Applications: Latex, Wireshark, VMWare, VirtualBox, Visio
Libraries: NetworkX, Requests, Numpy, Matplotlib

University Education

University of Glasgow
Glasgow, Scotland, UK

PhD. Computing Science
Jan 2020 to June 2023

- Network Function Virtualization (NFV)
- Software-defined Networking (SDN)
- Service Function Chaining (SFC)

University of Hertfordshire
Hertfordshire, England, UK

Msc. Computing Science
July 2014 to Jan 2016

- Software Development
- Networks and Operating Systems
- Systems modeling & design

University of Maiduguri
Maiduguri, Nigeria

Beng. E & E Engineering
April 2004 to Dec 2009

- Data communications and networks
- Electronics circuit design
- Power generation, transmission and distribution

IT Certifications

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

Amazon Inc.
Seatle, USA

- Hands-on experience using compute, networking, storage, management, and database AWS services
- Designing secure applications and architectures
- Designing resilient Cloud architectures
- Designing cost-optimized architectures
- Designing high-performing architectures

Amazon Web Services (AWS) Cloud Practitioner
July 2022

Amazon Inc.
Seatle, USA

- Cloud security and compliance
- Billing and pricing of Cloud solutions
- Cloud concepts and design

Cisco Certified Network Professional (CCNP R & S)
Feb 2011

Cisco Systems
San Francisco, USA

- Configuring and troubleshooting routers and switches for LAN/WAN connectivity
- Networks routing and switching
- BGP, MPLS, OSPF configuration and troubleshooting
- Network cabling for Cisco systems connectivity
- Cisco ISR configuration and management

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

Home Automation API - Java | *JAVA, OOP*   October 2014

- Smarthome API using OOP design concepts

Network and Server Penetration Testing | *Unix, Windows, Server Security*   November 2016

- Pentest lifecyle on Linux and Windows Servers

Professional memberships

British Computer Society(BCS)   June 2022 – Present
Membership number: 995111590   *London, UK*

Institute of Electrical and Electronics Engineers(IEEE)   June 2014 – Present
Membership number: 92735619   *NYC, USA*

AFRINIC - The Internet Numbers Registry for Africa   March 2018 - Present
Policy Development Working Group (PDWG) Member   *Port Luois, Mauritius*

Nigerian Society of Engineers (NSE)   March 2011 - Present
Membership number: G12769   *Abuja, Nigeria*

Nigeria Computer Society (NCS)   March 2018 - Present
Membership number: 10536   *Abuja, Nigeria*

Selected Publications

Performance Benefits of Heterogeneous VNF Execution Frameworks   July 2022
IEEE NetSoft 2022 Conference – View publication   *Milan, Italy*

NFV & SFC Frameworks: a Comprehensive Review of Challenges   Feb 2022
MDPI Future Internet Journal – View publication   *Basel, Switzerland*