

Haruna Umar Adoga

Glasgow, UK.

Networks | HPC Systems | Cloud

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ABOUT

Haruna Adoga has over eight years of experience in Linux systems and network engineering. He has experience and training as a researcher in computing science, focusing on systems and high-performance computing network management.

Experience - IT

Technical Research Support: Linux and HPC

Feb 2021 – Present

University of Glasgow School of Computing Science (Part-time)

- Providing technical support in troubleshooting problems with HPC clusters, and Linux systems
- Carrying out upgrades and applying security patches on Linux/Unix systems
- MPI parallel programming experience
- Web application development with Python (Django framework)
- Using Python for data science and research, using relevant libraries: Scapy, NetworkX, Requests, Pandas etc.
- Performing Linux/UNIX system administration and design, including storage and web server hosting with Nginx
- Hands-on experience with management and monitoring tools: SNMP, Nagios, IPMI
- Hands-on experience with monitoring HPC clusters using Icinga2

Networks & Systems Engineer

November 2016 – Present

Freelance

- Troubleshooting network devices, e.g., Cisco Routers/Switches and computer hardware
- Proficient in using the Linux command prompt
- 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
- Hands-on experience with network cabling and Ethernet Switches/Routers

Senior Linux Systems Engineer

Sept. 2014 – December 2019

Federal University Lafia

- Hands-on experience with parallel storage file systems: Ceph, Gluster and Lustre
- Carrying out Linux/UNIX system administration - managing user accounts, services and storage mounts, RAID, NFS exports
- Hands-on experience with the configuration and troubleshooting of Cisco routers and switches for LAN/WAN connectivity
- Carrying out routine systems maintenance by managing updates and patches
- Hands-on Linux system administration skill with managing services: DNS, DHCPd, chronyd, NFS, Vsftpd, Postfix, Samba, Apache, Nginx
- Hands-on skill with Ansible Automation to deploy Linux system services

Technical Support Specialist

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

January 2020 – Present

Researcher & Graduate Teaching Assistant (Part-time)

- 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

Education

University of Glasgow

Glasgow, UK

PhD. Computing Science

Jan 2020 to March 2024

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

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

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

RedHat Certified Systems Administrator (RHCSA)

In View

RedHat Inc.

Amazon Web Services (AWS) Cloud Practitioner

July 2022

Amazon Inc.

Cisco Certified Network Professional (CCNP R & S)

Feb 2011 - Expired

Cisco Systems

British Computer Society (BCS)

2022 - present

BCS, UK

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

2014 - present

IEEE, USA

Awards, Honours and Scholarships

Postgraduate research scholarship: <i>School of Computing Science, University of Glasgow, UK</i>	January 2023
Open Access Publication grant: <i>UKRI - University of Glasgow, UK</i>	February 2022
IEEE Netsoft 2022 Italy registration: <i>School of Computing Science, University of Glasgow</i>	July 2022
PhD full scholarship award: <i>PTDF Overseas Scholarship Scheme for PhD at the University of Glasgow, UK</i>	January 2020
MSc full scholarship award: <i>TetFUND Foreign Scholarship Award for MSc at the University of Hertfordshire, UK</i>	September 2014

Selected Personal Projects

Testbed design and evaluation of NFV Platforms <i>SDN, NFV, UNIX, OpenFlow, Docker</i> <ul style="list-style-type: none">Carried out the performance evaluation of commonly used virtual network functions in ISP environmentsReal testbed design on commodity servers (UNIX) for hosting network functionalitiesKVM server virtualization	June 2021
Hybrid Network Functions Deployment on Commodity Servers <i>Routing, Firewall, IDS</i> <ul style="list-style-type: none">Virtualization, Switching, stateful and stateless firewall deployments	September 2020
Network and Server Penetration Testing <i>Unix, Windows, Server Security</i> <ul style="list-style-type: none">Carried out a complete pentest lifecycle on a LAN with Linux & Windows Servers	November 2016

Service and Volunteering

University of Glasgow <i>School of Computing Science Systems Section Seminars</i> <ul style="list-style-type: none">Scheduling and hosting weekly seminars for the Systems group	May 2021 – May 2022
IEEE Journal <i>Journal reviewer</i> <ul style="list-style-type: none">Reviewing conference and journal articles for the IEEE	February 2021 – Present
SCottish Networking Event (SCONE) <i>Member and regular participant</i> <ul style="list-style-type: none">A gathering of networking and systems researchers in and around Scotland	January 2020 - Present
AFRINIC <i>Policy Development Working Group Member</i> <ul style="list-style-type: none">Developing and discussing number resource policy proposals that AFRINIC implements towards distributing IPv4, IPv6 and ASN resources in Africa.	May 2018 – Present

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

Latency-aware vNF Placement on Heterogeneous Hosts at the Network Edge <i>IEEE Global Communications Conference – View publication</i>	Dec 2023 <i>Kuala Lumpur, Malaysia</i>
Performance Evaluation of Virtual Network Functions <i>IEEE Network Softwarization Conference – View publication</i>	July 2022 <i>Milan, Italy</i>
Network Function Virtualization Frameworks: Review of Challenges <i>MDPI Future Internet Journal – View publication</i>	Feb 2022 <i>Basel, Switzerland</i>