

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.

Work Experience

Technical Research Support: Linux and HPC

Feb 2021 – Present

University of Glasgow School of Computing Science

- 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

Senior Linux Systems & Networks Engineer

May 2012 – Jan 2020

Federal University Lafia Computing Science

- 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

Networks & Linux Systems Engineer

Jan. 2010 – 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

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

Page 1 of 2 April 2004 to Dec 2009

Last updated on June 7, 2023

Technical Skills Summary

Programming & Scripting: Python, Bash, SQL

Cloud & Configuration Management : AWS, Ansible, Terraform, Xcat, SLURM

Networking : LAN, WAN, VPC, NFV, InfiniBand, 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

Applications: Wireshark, VMWare, KVM, VirtualBox, MS Visio, MS Project, Overleaf, Excel, PowerPoint

Open Source Libraries: NetworkX, Requests, Numpy, Matplotlib, Scapy, Pandas

IT Certifications & Training

RedHat Certified Systems Administrator (RHCSA)

In View

RedHat Inc.

Amazon Web Services (AWS) Cloud Practitioner

July 2022

Amazon Inc.

Information Technology Infrastructure Library (ITIL v3)

Sept. 2014

Cisco Certified Network Professional (CCNP R & S)

Feb 2013 - Expired

Cisco Systems

Selected Personal Projects

Real-world 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 - HPC | *Linux, Routing, Firewall, IDS* September 2021

- * 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

Selected Research & Documentation | *NFV, Switching, UNIX, Virtualization, Containers*

Performance Evaluation of Virtual Network Functions

July 2022

IEEE Network Softwarization Conference – [View publication](#)

Milan, Italy

Network Function Virtualization Frameworks: Review of Challenges

Feb 2022

MDPI Future Internet Journal – [View publication](#)

Basel, Switzerland