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
- Web application development with Python (Django framework)
- Performing Linux/UNIX system administration and design, including storage and web server hosting with Nginx
- Hands-on experience with monitoring HPC clusters using Icinga2, Ansible automation

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
- 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
- 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

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, 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 2
   * 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 Publications | *NFV, Switching, UNIX, Virtualization, Containers*

Latency-aware vNF Placement on Heterogeneous Hosts at the Network Edge   Dec 2023
IEEE Global Communications Conference – View publication   *Kuala Lumpur, Malaysia*

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*