Haruna Umar Adoga

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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   February 2021 – Present
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 Sept 2023*

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: £5,000   January 2023
School of Computing Science, University of Glasgow

Open Access Publication grant: £1,079   February 2022
UKRI - University of Glasgow

IEEE Netsoft 2022 Italy registration: £262   July 2022
School of Computing Science, University of Glasgow

PhD full scholarship award: £136,800   January 2020
PTDF Overseas Scholarship Scheme for PhD at the University of Glasgow

MSc full scholarship award: £29,048   September 2014
TetFUND Foreign Scholarship Award for MSc at the University of Hertfordshire

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 and hosting weekly seminars for the Systems group

IEEE Journal   February 2021 – Present
Journal reviewer
- Reviewing conference and journal articles for the IEEE

SCOttish Networking Event (SCONE)   January 2020 - Present
Member and regular participant
- A gathering of networking and systems researchers in and around Scotland

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*