Haruna Adoga, PhD

Glasgow, UK. Networks | HPC Systems | Cloud | Research & Development +44 7767943721 | Haruna.Umar.Adoga@gmail.com

About

Haruna Adoga has over ten years of experience in systems and network engineering, focusing on Cloud and HPC systems automation. He has experience and training as a researcher in computing science, with research endeavours in systems and high-performance computing and virtual network management. He is an active member of the IEEE Communications Society, the British Computer Society (BCS), and the Institution of Engineering and Technology (IET).

Work Experience

HPC Systems Engineer - Research Computing

University of Sussex, England

- Design of a private cloud HPC infrastructure for Research Computing
- Collaborating with industry and research experts in delivering tailored HPC solutions
- Providing design and technical support in troubleshooting problems with HPC clusters and Linux systems
- Carrying out upgrades, migration and applying security patches on Linux/Unix systems, compute, storage and networking
- Hands-on experience with HPC management and monitoring tools: Prometheus SNMP, Nagios, perfSONAR

Tutor & Graduate Assistant

University of Glasgow, Scotland

- Providing technical support in troubleshooting problems with HPC clusters and Linux systems
- Carrying out upgrades and applying security patches on Linux/Unix systems
- Performing Linux/UNIX system administration and design, including storage and web server hosting with Nginx
- 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

Networks & Systems Engineer

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
- Performing Cloud infrastructure monitoring and configuration

University Lecturer - Systems Engineer

Federal University of Lafia, Nigeria

- Delivering lectures in computer programming using Python and Java
- Presenting theoretical and practical lectures on networks, distributed systems, and system administration
- Assisting with routine systems maintenance by managing updates and patches
- Leading troubleshooting efforts on Windows, Mac and Linux servers
- Teaching undergraduate and postgraduate diploma students courses in networking and programming

Technical Support Specialist

Airtel Telecommunications, Abuja, Nigeria

- 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



May 2012 - January 2020

Feb 2021 – August 2023

August 2023 – Present

November 2016 – Present

April 2011 – May 2012

Education	
University of Glasgow	Glasgow, UK
PhD. Computing Science	Jan 2020 to May 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
Skills Summary	
 Research and Industry Certifications : Scientific paper reviews, Cisco CCNA, CCNP, Networking and Systems : LAN, HPC, WAN, VPC, NFV, InfiniBand, BGP, Switching, Routing Development Tools/Languages: Python, Bash, Git, Docker, Django AWS, Ansible, Ter Applications/Libraries: Wireshark, VMWare, Gurobi, KVM, NetworkX, Numpy, Matple Project Management: Trello, Jira, ITIL 	, RedHat, Kali, Ubuntu, rraform, Xcat, SLURM
IT Certifications and Professional Memberships	
British Computer Society (BCS) BCS, UK	2022 - present
Amazon Web Services (AWS) Cloud Practitioner Amazon Inc.	July 2022
Cisco Certified Network Professional (CCNP R & S) Cisco Systems	Feb 2011 - Expired
Selected Personal Projects	
OpenStack Private HPC Cloud Compute, Networks, Storage, High-performance * Design and deployment of OpenStack Cloud * Linux Operating Systems upgrades and migration * KVM server virtualization and network performance measurements	Nov 2023 - present
Testbed design and evaluation of NFV Platforms <i>SDN, NFV, UNIX, OpenFlow, I</i> * Carried out the performance evaluation of commonly used virtual network functions in * Real testbed design on commodity servers (UNIX) for hosting network functionalities * KVM server virtualization	Docker June 2022 A ISP environments
Hybrid Network Functions Deployment on Commodity Servers Routing, Firewa * Virtualization, Switching, stateful and stateless firewall deployments	<i>ll, IDS</i> 2020 - 2021
Network and Server Penetration Testing Unix, Windows, Server Security * Carried out a complete pentest lifecycle on a LAN with Linux & Windows Servers	November 2016

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

Leveraging NFV Heterogeneity at the Network Edge PhD Thesis, University of Glasgow <u>View publication</u>	Jan 2024 United Kingdom
Latency-aware vNF Placement on Heterogeneous Hosts at the Networ	k Edge Dec 2023
IEEE Global Communications Conference – View publication	Kuala Lumpur, Malaysia
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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 – <u>View publication</u>	Basel, Switzerland
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 research group	
IEEE Journal	February 2021 – Present
Journal reviewer * Reviewing conference and journal articles for the IEEE	
AFRINIC	May 2018 – Present
Policy Development Working Group Member	
* Developing and discussing a number of resource policy proposals that AFRINIC i IPv4, IPv6 and ASN resources in Africa.	mplements towards distributing
YouTube	2014 - Present
Hands-on tech tutorials	
* I present hands-on videos on various aspects of Information Technology, emphasis	ing Linux Server

* I present hands-on videos on various aspects of Information Technology, emphasising Linux Server Administration, Windows, Networks and Automation. – <u>View YouTube Channel</u>