

# Haruna Adoga, PhD

Glasgow, United Kingdom.

Lecturing | HPC Systems | Distributed Edge/Cloud Computing Networks

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## ABOUT

Dr Haruna Adoga has over ten years of academic and industry experience in systems and network engineering, focusing on cloud and distributed edge computing systems. He has experience and training as a researcher in computing science, with research and teaching endeavours in computing systems, high-performance computing, intelligent virtual network management and cybersecurity. He is an active member of the British Computer Society (BCS), the IEEE, the Institution of Engineering and Technology (IET), the Nigeria Computer Society (NCS), and the Nigeria Society of Engineers (NSE).

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## Experience

### Research Computing Engineer

August 2023 – Present

*University of Sussex, England, UK*

- 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 and applying security patches on Linux/Unix systems for scientific computing
- Training researchers on the use of scientific computing infrastructure for high-performance computing
- Performing Linux/UNIX system administration and design, including storage and web server hosting with Nginx
- Hands-on experience with HPC management and monitoring tools: SNMP, Nagios, IPMI

### Researcher & Graduate Teaching Assistant

January 2020 – January 2024

*University of Glasgow, Scotland, UK*

- Tutoring undergraduate students on Human-Computer Interaction and Information Management
- Tutoring level 2 students on Networks and Operating Systems Essentials 2
- Tutoring students on data science, AI, SQL and Cybersecurity
- 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)

### University Lecturer - Computer Science

May 2012 – Present

*Federal University Lafia, Nigeria*

- Delivering lectures in computer programming using Python and Java
- Presenting theoretical and practical lectures on networks, distributed computing and cloud computing
- Lecturing cybersecurity and data structures to pre-undergrads
- Delivering lectures on Machine Learning and AI application on computer networks
- Supervising undergraduate and postgraduate projects
- Lecturing undergraduate and postgraduate diploma students courses in parallel computing and operating systems
- Delivering lectures on databases and parallel computing

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## Education

### University of Glasgow

*PhD. Computing Science*

Glasgow, UK

*Jan 2020 to May 2024*

### University of Hertfordshire

*MSc. Computing Science*

Hertfordshire, UK

*July 2014 to Jan 2016*

### University of Maiduguri

*Beng. E & E Engineering*

Maiduguri, Nigeria

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*April 2004 to Dec 2009*

*Last updated on July 13, 2024*

## Skills Summary

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**Research and Industry Certifications** : Scientific paper reviews, Cisco CCNA, CCNP, AWS Cloud Practitioner  
**Networking and Systems** : LAN, HPC, Cloud, Edge computing, WAN, VPC, NFV, InfiniBand, BGP, Switching, RedHat, Kali, Ubuntu, Routing  
**Development Tools/Languages**: Python, Java, Bash Scripting, Git, Docker, Django AWS, Ansible, Terraform, Gen AI, SQL  
**Applications/Libraries**: Wireshark, VMWare, Teams, Office, Powerpoint, KVM, Jira, NetworkX, Numpy, Matplotlib, Scapy, Overleaf

## IT Certifications and Professional Memberships

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<b>Amazon Web Services (AWS) Cloud Practitioner</b> <i>Amazon Inc.</i>	July 2022
<b>Cisco Certified Network Professional (CCNP R &amp; S)</b> <i>Cisco Systems</i>	Feb 2011 - Expired
<b>Nigeria Society of Engineers (NSE)</b> <i>NSE, Nigeria</i>	2011 - present
<b>British Computer Society (BCS)</b> <i>BCS, UK</i>	2022 - present
<b>Nigeria Computer Society (NCS)</b> <i>NCS, Nigeria</i>	2018 - present
<b>Institute of Electrical and Electronics Engineers (IEEE) No: 92735619</b> <i>IEEE, USA</i>	2014 - present
<b>Institute of Engineering Technology (IET)</b> <i>IET, UK</i>	2022 - present

## Service and Volunteering

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<b>YouTube Tech Tutorials</b> <i>Hands-on free IT tutorials</i> <ul style="list-style-type: none"><li>* I present hands-on video tutorials on various aspects of Information Technology, emphasizing cybersecurity, Linux Server Administration, Windows, Computer Networks, and Automation. – <a href="#">View YouTube Channel</a></li></ul>	2014 – Present
<b>University of Glasgow</b> <i>School of Computing Science Systems Section Seminars</i> <ul style="list-style-type: none"><li>* Scheduling and hosting weekly seminars for the Systems research group</li></ul>	May 2021 – May 2022
<b>IEEE Journal</b> <i>Journal reviewer</i> <ul style="list-style-type: none"><li>* Reviewing conference and journal articles for the IEEE</li></ul>	February 2021 – Present
<b>AFRINIC</b> <i>Policy Development Working Group Member</i> <ul style="list-style-type: none"><li>* Developing and discussing several resource policy proposals that AFRINIC implements towards distributing IPv4, IPv6 and ASN resources in Africa.</li></ul>	May 2018 – Present
<b>National Youth Service Corps - NYSC</b> <i>Mathematics Teacher, Oluponna School, Osun, Nigeria</i> <ul style="list-style-type: none"><li>* Teaching secondary school students in various mathematical concepts and theories, including assessments</li><li>* Develop lesson plans and curriculum aligned with the educational standards</li></ul>	March 2010 – March 2011

## Awards, Honours and Scholarships

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

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

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<b>Leveraging NFV Heterogeneity at the Network Edge</b> <i>PhD Thesis, University of Glasgow <a href="#">View publication</a></i>	Jan 2024 <i>United Kingdom</i>
<b>Latency-aware vNF Placement on Heterogeneous Hosts at the Network Edge</b> <i>IEEE Global Communications Conference – <a href="#">View publication</a></i>	Dec 2023 <i>Malaysia</i>
<b>Performance Evaluation of Virtual Network Functions</b> <i>IEEE Network Softwarization Conference – <a href="#">View publication</a></i>	July 2022 <i>Milan, Italy</i>
<b>Network Function Virtualization Frameworks: Review of Challenges</b> <i>MDPI Future Internet Journal – <a href="#">View publication</a></i>	Feb 2022 <i>Basel, Switzerland</i>