

Kehinde Ayano Ph.D.

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PROFESSIONAL SUMMARY

- Ph.D. in Computer and Information Technology with research focus on Cyber Security and Artificial Intelligence
- CrowdStrike NextGen Scholar in Cyber Security and Artificial Intelligence
- Certified Information System Security Professional CISSP
- Teaching Assistant in the Department of Computer and Information Technology
- IT Support Specialist for Purdue Graduate School
- Conducted research in the detection of Malware in Encrypted traffic using a data-driven approach(Ph.D. research)
- Deployed secured wireless communications and internet security
- Worked as Network Support and Network Security Engineer for an Internet Service Provider
- Configured Cyberoam, firewall, and other network security equipment

EDUCATION

- **Ph. D in Computer and Information Technology**, Purdue University, IN **2023**
- **Master of Information Technology**, Ladoke Akintola University of Technology Nigeria **2011**
- **Post Graduate Diploma in Computer Science**, Ladoke Akintola University of Technology, Nigeria **2009**
- **Higher National Diploma in Electrical/Electronic Engineering**, The Polytechnic Ibadan Nigeria **2002**

PROFESSIONAL EXPERIENCE

- **Assistant Professor of Computer Science, Indiana Wesleyan University Marion Indiana Aug 2023-To date**
 - Teach Computer Science Courses to students.
 - Supervise Senior Capstone Projects
 - Lead the Computer Science Summer Camp
- **IT Support Specialist (G.A.), Purdue University Graduate School, W. Lafayette, Indiana Jan. 2021- July 2023**
 - Managed the Microsoft SharePoint Sites of Purdue University Graduate School
 - Provided policies and procedures for grad school on Information Security.
 - Enhanced graduate school staff productivity and job delivery through software and hardware technical support
 - Provided LAN/WAN support and troubleshooting of technical issues
 - First level investigation of potential security breaches and recommendation to forestall recurrence
 - Responsible for promoting IT security awareness and best practices through periodic training of staff
 - Provided infrastructure technical expertise and specification for IT systems to ensure business requirements are met
- **Research Assistant (R.A.), Computer and Infotech. Dept., Purdue University Aug. 2019- May 2020**
 - Conducted research on malware detection in SSL encrypted traffic without decryption
 - Data cleaning and preprocessing
 - Analyzed and visualized data using machine learning techniques and visualization tools
 - Documented Lab proceedings and generate reports
- **Teaching Assistant (T.A.), Computer and Infotech. Dept., Purdue University Aug. 2020- Dec 2020**
 - TA for *Personal Computing Technology and Application* CNIT 136
 - Delivered a range of teaching assessment activities including tutorials and lectures.
 - Contributed to the development of course materials to ensure learning objectives are met
 - Assisted faculty members with classroom instruction, grading, and record keeping
- **Network Security Engineer – Coollink ISP, Lagos Nigeria Nov 2012 – Aug. 2019**

- Configured and installed Security infrastructure devices like routers switches and firewalls
- Configured and troubleshoot site-to-site VPN connections.
- Ensured operational compliance with regulatory bodies.
- Assisted in the adoption of new security products, services and processes and champion the adoption of security controls within Security operating center (SOC)
- Reviewed documented risks and drive containment, eradication and recovery activities and document post incidence activities
- Led a team of ten engineers for the Express Wi-Fi (XWF), a project in collaboration with Facebook where 1000 small-scale businesses in Nigeria were internet empowered and served as retailers to individual subscribers.
- Monitored network performance using PRTG tools and troubleshoot issues on the network, ensuring SLA is maintained at 99.99% resulting in increased customer satisfaction.

- **Internet/Data Support officer-Multilinks-Telkom, Lagos Nigeria** **April 2008 – Dec 2011**

- Configured and troubleshoot Evolution data optimized internet modems for subscribers.
- Computer software and hardware troubleshooting.
- Programming and activation of CDMA phone line.
- Interfaced with subscribers at the customer care unit for prompt resolutions of complaints.

- **Network Support Engineer - VDT Communications Limited, Lagos Nigeria** **Feb 2007- March 2008**

- Conducted Site survey for LOS for microwave radio link installations for existing and prospective client
- Managed a POP(base station) for the company and provided technical support for VPN
- Designed and Implemented LAN Network Architecture for client
- Managed and configured all network Hardware and equipment, including routers, switches, and microwaves radio

- **Instructor- Lead City University Ibadan Nigeria** **June 2004- Feb 2007**

- Managed Computer and Electronics Laboratory of the university and supervised Laboratory set up for practical.
- Taught Computer and Basic Electronics courses to the student

Professional Certification

- **CISSP Certified Information System Security Professional** **2023**
- **AWS Certified Cloud Practitioner** **2020**
- **ITIL V3 Foundation** **2008**

Professional membership

- Member, Association of Computing Machinery (ACM)
- Member, Center for Education and Research in Information Assurance and Security (CERIAS)
- National Society of Black Engineers Purdue university chapter
- Fellow National Institutes of Professional Engineers and Scientists
- Senior Member Institute of Electrical and Electronics Engineers (SMIEEE)

Paper and Poster

- Malware Detection in Encrypted network traffic without Decryption, 2022 CMD-IT/ACM Richard Tapia Celebration of Diversity in Computing Conference. Sept. 2022.
- Ayano, K. (2024). Deep Learning-Based Anomaly Detection in TLS Encrypted Traffic. In: Arai, K. (eds) Proceedings of the Future Technologies Conference (FTC) 2024, Volume 4. FTC 2024. Lecture Notes in Networks and Systems, vol 1157. Springer, Cham. https://doi.org/10.1007/978-3-031-73128-0_16
- Cybersecurity in critical infrastructure: Protecting Power and Smart grids. https://cyberdefensemagazine.tradepub.com/free/w_cyba166/
- O. Ayano and K. Ayano, "Comparative Analysis of Community Detection Algorithms and Machine Learning Approaches for Network Analysis," *2025 IEEE International Conference on Big Data (BigData)*, Macau, China, 2025, pp. 2725-2731, doi: 10.1109/BigData66926.2025.11402311.

Award

- 2021-2022 CrowdStrike Foundation NextGen Scholarship award for AI and Cybersecurity
- 2019-2020 Purdue Research Foundation Scholarship award.
- Purdue Global Ambassador 2022-2023