

FISAYO SANGOLEYE

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PROFILE SUMMARY:

A dynamic, self-motivated graduate student with strong analytical and organizational skills, excellent communication and intercultural skills, and a team player eager to work in a fast-paced, inter-disciplinary environment. Academically exposed to core networking concepts like IP, Routing and Switching, BGP, OSPF, MPLS, Cloud Computing, Network Function Virtualization, Software Defined Networking, and Network Security, and currently conducting research on Cybersecurity for Industrial Control Systems.

EDUCATION

Ph.D. in Computer Engineering

University of New Mexico, Albuquerque NM.

GPA: 4.27/4.00

2020 – 2023

MS in Computer Engineering (with Distinction)

University of New Mexico, Albuquerque NM.

GPA: 4.27/4.00

2020 – 2021

Relevant Coursework: Computer Networks, Network Economics, Computing and Algorithms, Hardware Software Codesign with FPGAs, Hardware-Oriented Security and Trust, Cloud Computing, Network Softwarization, Advanced Computer Architecture.

Bachelor of Science in Electrical and Electronics Engineering

University of Lagos, Nigeria.

GPA: 4.05/5.00

2011- 2016

WORK EXPERIENCE

Research Collaborator

Sandia National Labs

Oct 2021 - Present

- Conduct research on Cybersecurity for Industrial Control Systems (SCADA and DCS).
- Conduct research on Cyber-physical barriers and hardening technologies for networked microgrid applications.
- Conduct research on Intrusion Detection Systems (IDS), and Machine Learning-based Network Anomaly Detection Technologies for Operational Technology (OT) Environments.

Graduate Research Assistant

Electrical and Computer Engineering Department, University of New Mexico

May 2020 - Present

- Conduct research on resource allocation and optimization in heterogeneous wireless networks, Internet of Things, Artificial Intelligence, and demand response management, resilience and cybersecurity in smart grid networks using Game Theory, Optimization and Reinforcement Learning.

Graduate Teaching Assistant

Electrical and Computer Engineering Department, University of New Mexico

Jan 2020 – May 2021

- Assisted with course preparation, office hours tutoring and grading of students in Programming Fundamentals in C, Introduction to Communication Systems, and Advanced Engineering Mathematics with MATLAB.

Team Lead, Digital Strategy

TERAWORK, Nigeria

Oct 2017 - Nov 2019

- Led a team of 15 through the development and execution of digital business strategies that drove more than 500% growth.
- Improved the usability, design, content, and traffic of the company website and achieved over 700% growth in web interaction.

Network Engineer

Government Secondary School, Nigeria

Aug 2017 - Oct 2017

- Managed a VSAT Network for 24th Gen. Network Company and assisted with troubleshooting and maintenance.

Network Engineer (Intern)

Cyberspace Network Limited, Nigeria

Aug 2015 - Jan 2016

- Installed, Configured, and troubleshooted several network devices (LTE, WiMAX, VSAT).
- Managed Base stations, as well as other network infrastructures, and assisted site engineers with network issues resolution from the Network Operations Centre (NOC).

TECHNICAL PROFICIENCY

- Python, C, C++, MATLAB, Linux, Wireshark, NMAP, OpenVAS, Metasploit.
- Reinforcement Learning, Optimization.

RESEARCH AND PUBLICATIONS

- F. Sangoleye, M. S. Hossain, E. E. Tsiropoulou, and J. Plusquellic, "Network Economics-based Crowdsourcing in UAV-assisted Smart Cities Environments" in 4th International Workshop on Wireless Sensors and Drones in Internet of Things (Wi-DroIT) 2022. (Under Review).
- M. S. Hossain, N. Irtija, M. Diamanti, F. Sangoleye, E. E. Tsiropoulou, and S. Papavassiliou, "Location-aware Task Offloading in Edge Computing enabled by Reconfigurable Intelligent Surfaces" in IEEE Transactions on Green Communications and Networking, 2021. (Under Review).
- F. Sangoleye, J. Jao, E. E. Tsiropoulou, and S. Papavassiliou, "Reinforcement Learning-based Demand Response Management in Smart Grid Systems with Prosumers" in IEEE Systems Journal, 2021. (Under Review).
- F. Sangoleye, N. Irtija, E. E. Tsiropoulou, and S. Papavassiliou, "Prospect-theoretic Demand Response Management in Smart Grid Systems" in IEEE Transactions on Smart Grid, 2021. (Under Review).
- Sangoleye, Fisayo, Nafis Irtija, and Eirini Eleni Tsiropoulou. "Smart Energy Harvesting for Internet of Things Networks." Sensors 21.8 (2021): 2755.
- Sangoleye, F; Irtija, N; Tsiropoulou, E.E. "Data Acquisition in Social Internet of Things based-on Contract Theory" in ICC 2021-IEEE International Conference on Communications. IEEE, 2021.
- N. Irtija, F. Sangoleye and E. E. Tsiropoulou, "Contract-Theoretic Demand Response Management in Smart Grid Systems," in IEEE Access, vol. 8, pp. 184976-184987, 2020, doi: 10.1109/ACCESS.2020.3030195.

LICENCES & CERTIFICATIONS

Coursera

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|--|---------------|
| • Penetration Testing, Incident Response and Forensics (<i>Cred. ID: TQKHVZ4WDAXG</i>) | December 2021 |
| • IT Fundamentals for Cybersecurity Specialization (<i>Cred. ID: 825KA83T7K8S</i>) | November 2021 |
| • Network Security & Database Vulnerabilities (<i>Cred. ID: JDMHTTTLQF26</i>) | November 2021 |
| • Cybersecurity Compliance Framework & System Administration (<i>Cred. ID: CNF45DB8KCUR</i>) | November 2021 |
| • Cybersecurity Roles, Processes & Operating System Security (<i>Cred. ID: W2JC28VDYMI5</i>) | October 2021 |
| • Introduction to Cybersecurity Tools & Cyber Attacks (<i>Cred. ID: VM7BDM6UVG6R</i>) | October 2021 |

MEMBERSHIPS AND OFFICES HELD

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| • The Institute of Electrical and Electronics Engineers (IEEE) – Member | March 2021 – Present |
| • National Society of Black Engineers (NSBE), UNM - Member | Jan 2020 – Present |
| • African Students Association of UNM - Member | Jan 2020 – Present |
| • Black Students Association - Member | Aug 2020 – Present |
| • Graduate and Professional Students Association (GPSA), UNM - Grant Reader | Aug 2020 – Present |