

# Victor Olaiya

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## EDUCATION

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### William & Mary

*Ph.D. Student in Computer Science; **Expected Graduation Spring 2027***

*Advisor: Adwait Nadkarni*

Williamsburg, VA

*August 2022 – Present*

### University of Benin

*B.Eng. in Computer Engineering*

*First Class Honours*

Benin City, Nigeria

*Jan 2015 – Nov 2019*

## PUBLICATIONS

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- [1] Prianka Mandal, Amit Seal Ami, **Victor Olaiya**, Sayyed Hadi Razmjo, and Adwait Nadkarni. “Belt and suspenders” or “just red tape”? Investigating Early Outcomes and Perceptions of IoT Security Compliance Enforcement. In *Proceedings of the 2024 USENIX Security Symposium (USENIX)*, August 2024. To appear. PDF.

## PROFESSIONAL EXPERIENCE

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### Secure Platforms Lab, William & Mary

*Research Assistant*

Williamsburg, VA

*Aug 2022 – Present*

- Conduct static analyses on Android applications using cutting-edge tools for automatic analysis, and manual source code inspection to identify instances of cryptographic API misuse.
- Cross examine IoT compliance standards to identify gaps in IoT security compliance enforcement particularly as it pertains to certification of IoT product.

### Computer Science Dept., William & Mary

*Teaching Assistant*

Williamsburg, VA

*August 2022 – Present*

- Fall 2023 – CSCI 420/520-01: Neural Network for Machine Learning.
- Fall 2023 – CSCI 420/520-03: Intro to Human-Computer Interaction.
- Spring 2023 – CSCI 304: Computer Organization.
- Fall 2022 – CSCI 445: Mobile Application Security.

### FiberOne Broadband

*Core Network Engineer*

Lagos, Nigeria

*May 2021 – June 2022*

- Analyze and troubleshoot core network by evaluating network performance issues including availability, utilization, throughput, and latency.
- Network provisioning e.g IP assignment, core network configuration, colocation, leased lines, customer backup and other customer network services i.e. APN, VPN, SDWAN
- Configure edge devices including routers, switches, OLTs etc and actively involved in the setup and integration of any new BTS.
- Monitor all active devices (routers, switches, OLTs etc) within the datacenters to enable proper capacity planning and the proactive identification and resolution of faults and incidents.

### ipNX Nigeria

*Network Operations Center Intern/Data Analyst*

Lagos, Nigeria

*Nov 2020 – April 2021*

- Monitor network operations for uptime and downtime, monitor fiber optics OLTs and PON ports, ensure smooth running of all network monitoring systems: both for core network nodes and transmission network.
- Worked with data analysts to interpret large datasets to enable decision making in the department as well as compile availability reports of base stations, OLTs and long-distance services.
- Escalate issues related to cooling, voltage instability, shelter leakages etc and manage access request for ipNX operations team visit to points of presence/colocation sites and also arrange visits to datacenters (Rack center, Mainone MDXI etc.)

## SKILLS

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**Programming:** C, Bash, Python, Java, MATLAB, C++, Assembly, Latex, VHDL

**Networking:** Cisco Routers and Switches, Mikrotik Routers, VLAN, Layer 2, Layer 3, VPN, Local Area Network (LAN), Wide Area Network (WAN), Access Lists, Incident Management, WLAN, Troubleshooting, Core Network, Dynamic Host Configuration Protocol (DHCP), Border Gateway Protocol (BGP), Network Address Translation (NAT).

**Technologies:** Git, Docker, MicroC, Labcenter Proteus, Arduino, Soldering, Prototyping with Breadboards,

**Languages:** English, Edo, Yoruba

## PROFESSIONAL SERVICE

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**Technical Program Committee:**

Artifact Evaluation Committee for Annual Computer Security Applications Conference (ACSAC), 2023

**Subreviewer for Conferences:**

ISOC Network and Distributed System Security Symposium (NDSS), 2024

International Conference on Applied Cryptography and Network Security (ACNS), 2024

Annual Computer Security Applications Conference (ACSAC), 2023

**Graduate International Peer Leader:** Reeves Center, William & Mary, 2023

**Volunteer:** William & Mary Computer Science Symposium for Graduate Studies, Williamsburg, VA, 2022, 2023.

**Volunteer:** Children Emergency Relief Foundation (CERF), 2012

## RELEVANT COURSEWORK

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**Major coursework:** Analysis of Algorithms, Concepts of Computer Security, Advanced Microarchitecture Security, Compiler Techniques for High Performance Computing, IoT Security, Advanced Software Engineering, Ubiquitous and Mobile Computing, Autonomous Driving and Connected Mobility