

Ebuka Nkoro

GRADUATE RESEARCHER · THREAT INTELLIGENCE ANALYST

South Korea

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“Cyber Threat Intelligence Analyst - Web3 Investigations”

Summary

Cybersecurity researcher with a background in AI-enabled threat intelligence. I have experience identifying vulnerabilities and implementing trustworthy and robust AI-enabled security measures to safeguard modern networks, and users against teeming cyber threats.

Work Experience

Townson University

South Korea

DOCTORATE RESEARCH AND TEACHING ASSISTANT.

August 2025-Present

- Conducting research on LLM security, such as prompt injection attacks.
- Conducting research on AI-enabled cybersecurity for wireless integrated sensing technologies.
- Grading quizzes for undergraduate courses on Operating Systems and Data Structures.

AI & Cybersecurity Research Assistant

South Korea

ICT CENTER, KUMOH NATIONAL INSTITUTE OF TECHNOLOGY.

Sept. 2022 - August 2025

- Conducting research on Explainable AI (XAI), network intrusion detection systems (NIDS) for Zero-trust Metaverse security, data privacy, and identity management.
- Employed whitebox/blackbox adversarial machine learning techniques for zero-trust NIDS model security in the Metaverse.
- Collaborating with researchers in industry-led projects (Blockchain, AI) to develop Digital twin models for autonomous vehicles.
- Simulation of man-in-the-room attacks and penetration testing of a secure Metaverse platform-Creativia.

Over-the-Counter (OTC) & Crypto Sanctions Threat Analyst

Remote

CHAINLABS.

March. 2025 - Date

- Led the OTC team investigating illegal global crypto OTC shops facilitating darknet markets.
- Employed OSINT tools and sources such as OFAC and OpenSanctions for taint analysis of sanctioned crypto entities, as well as wallet tracing of darknet markets; contributed to the identification of over 1,000 entities that were used to combat crypto crime and later sold as intelligence products to security companies.

Head of Information Technology Department

Abuja, Nigeria

BELANOVA LTD.

July. 2022 - Date

- Developed/configured a new and secure WiFi network for admin staff and customers, and improving customer network satisfaction and wifi security demands by 95%
- Identified redundancy in processes and personnel that allowed 1M Naira of annual Internet connectivity expenses to become a source of revenue.

Graduate Intern

Abuja, Nigeria.

NIGERIAN COMMUNICATIONS COMMISSION (NCC)

July. 2021 - July. 2022

- Managed secretarial, office assistant, and monthly data backups for Telecommunication projects. Also proposed the ArGIS software for mapping out Telecom sites locations efficiently.
- Conducting vulnerability assessments and penetration testing of office WAN network, and applications to identify security threats.
- Writing detailed reports outlining the findings of security assessments and penetration tests, as well as recommendations for remediation.

STEM Teacher

Remote

IREX, USA DEPARTMENT OF STATE.

part-time

- Served as an application's reviewer and STEM curriculum reviewer since 2022, to read and review applications for the 2022, Community Solutions Program, CEH, CEE, 2023 Community Solutions cohort.
- Evaluated over 400 applicants' essay and interview videos in total using the CSP/IREX scoring rubric.
- Taught STEM subjects like robotics, Mathematics and child online safety in IREX virtual exchange teacher programs.

Publications

CONFERENCE PAPERS

2024	9, PureMetaScan: An Explainable AI Framework for Detecting Vulnerable Metaverse Smart Contracts.	Jeju, S.Korea
2024	8, Bit-by-Bit: A Quantization-Aware Training Framework with XAI for Robust Metaverse Cybersecurity.	Osaka, Japan
2024	7, Prophet-Based Time Series Model for Automotive Sales Prediction.	S.Korea
2023	6, Cyber-Chameleon: A Moving Target Defence Mechanism for Metaverse Cyberattacks.	S.Korea
2022	5, Explainable Adversarial Mitigation Framework for Zero-Trust Cyber Warfare ICTC 2023.	S.Korea
2022	4, SHAP-Based Intrusion Detection Framework for Zero-Trust IoT Maritime Security, ICMIC 2023.	S.Korea
2022	3, Performance Comparison of Kalman Filtering Approaches for Digital Twin-based Battery SoC Estimation, JCCI 2023.	S.Korea
2022	2, Real-Time QR Code License Plate Detection in Vehicles Using Pyzbar, KICS Fall, 2022.	S.Korea
2022	1, Industrial Network Attack Vulnerability Detection and Analysis using Shodan Eye Scanning Technology, ICTC 2022.	S.Korea

Journals

2024	1, Detecting Cyberthreats in Metaverse Learning Platforms using an Explainable DNN. (Accepted)	Elsevier IoT
2024	4, MetaWatch: Trends, Challenges and Future Directions of Intrusion Detection in the Metaverse. (Accepted)	IEEE IoT
2024	2, Zero-Trust Marine Cyberdefense for IoT-Based Communications: An Explainable Approach (Accepted)	MDPI Electronics
2025	3, Leveraging Digital Twin Technology for Battery Management: A Case Study Review. (Accepted)	IEEE Access
2023	5, XAI with Adversarial Defence for Zero-Trust Metaverse DDoS Attack Detection. (Under review- UR)	IEEE TDSC
2025	6, Explainable DNN for Smart Contract Vulnerability Detection in the Metaverse (R1)	High Confidence

Education

Federal University of Technology Owerri (FUTO)

Owerri, Nigeria

BACHELORS IN INFORMATION TECHNOLOGY

Jan. 2014 - December. 2019

- Won the Senator T.A Orji Scholarship given to promising students in Abia State.
- Thesis: Simulation of a wireless intercom system using VoIP technology for the IT Department.

Kumoh National Institute of Technology (KIT)

Gumi, South Korea.

MENG. IN IT COVERGENCE ENGINEERING

Sept. 2022 - August 16. 2024

- Brain Korea 21 (BK 21) Scholarship given to promising international students in South Korea.
- Thesis: Explainable Tiny Adversarial Intrusion Detection System for Zero-trust Metaverse Security.

Competencies

Certifications

- Microsoft Cloud security (SC-900).
- OSINT Threat Intelligence for Anti-money laundering using Iknaio, Metaslouth, Arkham.
- Computer Networking.
- Machine Learning (2024 Oxford ML Summer school)
- Certified in Cybersecurity (ISC)².
- Google Cybersecurity; *Assets, threats and vulnerabilities*.
- Penetration Testing, Python Programming, Incident Response and Forensics IBM.
- **Ethical Hacking** Essentials EC-Council.
- CCNA Introduction to Networks.
- Encryption, **Internet Governance** and Policy Advocacy Internet Society (ISOC).
- **Machine Learning, Machine Unlearning, Adversarial Machine Learning, XAI & Data Analytics**
- Python Programming, **IoT & Digital Twins, Unreal Engine & Blender (3D model development)**

Professional Affiliations



MEMBER

Sep. 2022

- Internet Society (ISOC).
- Internet Corporation for Assigned Names and Numbers (ICANN) -APRLO
- Computer Society of Nigeria (CPN)