

Roger Nick Anaedevha

Security Data Scientist

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Address: Proleterskiy Prospekt 8k2, Moscow, Russia. (Willing to relocate).



Summary:

Experienced and innovative researcher with a proven track record in developing robust Adversarial Machine Learning (AML) models. Published papers on machine learning (ML) models, security frameworks, and steganographic transformers. Skilled in Network security engineering, data science and algorithm development for advancing knowledge of systems architectures in dynamic industry and academic environments.

Experience:

Security Data Scientist

at home.mephi.ru, Moscow, from March 2023 – present (1 Year).

- Conducting research on algorithms of adversarial models and developing deep learning models for penetration testing, rating applications, LLMs for hate speech detection, etc.
- Development of Steganographic Transformers & GANs models for Image – Audio data.
- Capturing real-time data files from systems logs and online networks.
- Data feature engineering, cleaning and pipeline using scripts of python libraries.
- Report writing, visualizations, and presentations with Power BI and Tableau.
- Training Development of Applications backend with API using MongoDB, Node.js, Express.js, React.js, and JSON.

Developer/IT Support Officer

at Devdem Limited (devdemtech.com/) Nov. 2018 – Oct. 2021 (3 years).

- Systems and network security research using C/C++ and machine learning data modeling using Python libraries and frameworks: Scapy, Scikit-Learn, Keras, TensorFlow, PyTorch, SciPy.
- Developer of web app modules, fixing bugs, and building software applications compatible with Unix, Linux, macOS, and Windows.
- Responding to database queries and database reports using SQL programs.
- Training Certified Ethical Hacker (CEH) courses, and scheduled curriculum development.
- Creating, testing, and analyzing web applications using HTML, CSS, JavaScript, with CMSs - WordPress and SEO customization.
- Troubleshooting computers, workstations, and resolving IT support problems.

Education:

- * **PhD Student in Cybernetics & Artificial Intelligence (02.03.01),**
at the National Nuclear Research University (MEPhI), Moscow, Russia (October 2023 - Present).
- * **Master's Degree in Information Security (10.04.01),**
at the National Nuclear Research University (MEPhI), Moscow, Russia (Sept. 2021 – June 2023).
- * **Master's Degree in Computer Science,**
at the University of Abuja, FCT, Nigeria. (2018 – 2021).
- * **Bachelor's Degree in Computer Science,**
at Ambrose Alli University, Edo, Nigeria. (2005 – 2010).

Skills Summary:

Programming Languages – Python (Advance), C/C++ (Intermediate), JavaScript (Intermediate), R (Beginner).

Specific Research Interest – Machine learning & Artificial Intelligence (AI), Algorithm Development, Wireless Network Security, HPC (MPI, OpenMP, CUDA), and blockchain computing.

Machine Learning libraries – Keras, Scikit-learn, TensorFlow, Pytorch, NLTK, OpenCV.

Operating Systems/Platforms – Linux, MacOS, Windows, Virtual Machines (VM).

Database Applications – RapidMiner, WEKA, SPSS, Power BI, Tableau, SQL, Oracle11g.

Presentation Applications – UML/Modelio, Microsoft office Suite, Corel Draw/InDesign.

Language Knowledge:

* English: Advance & Fluent.

* Russian: B1 – Intermediate.

Research Papers and Publications:

- 2024, First Author: Application of Robust Adversarial Machine Learning Model against Evasion Attacks in Intrusion Detection Systems (IDS). (Under Open Review at the “Twenty-Sixth International Conference on Artificial Neural Networks “Neuroinformatics-2024”).
- 2024, First Author: Deep Learning Approach to Steganography: Utilizing Transformers for Audio-Image Representation and Information Hiding. (Under Open Review at the “Twenty-Sixth International Conference on Artificial Neural Networks “Neuroinformatics-2024”).
- 2024, First Author: R.N. Anaedevha, "Application of Machine Learning Models for Device Identification in Wireless Network Traffic," *IEEE 2024 Conference of Young Researchers in Electrical and Electronic Engineering (ElCon)*, Saint Petersburg, Russian Federation, 2024, pp. 104-110, doi: 10.1109/ElCon61730.2024.10468413.
- 2023, First Author: Development of Machine Learning models for Devices Identification in wireless networks traffic (Master’s Thesis).
- 2020, First Author: Improved Cyber Security Framework for Nigerian Civil Aviation Authority Headquarters”, in *IJASRE* volume 6 issue 1.pp. 188-195.
- 2014, First Author: Sustainable business model for airline operation in a developing economy: Nigerian case study”, in proceedings of iSTEAMS Conference 2014, pp. 167-

Professional Development Courses & Certifications:

- 2023 Google Cyber Security Professional & Associate Certificate on Coursera.org/
- 2022 Cryptography by Prof. Dan Boneh of Stanford University, on Coursera.org/
- 2022 Generative Adversarial Networks (GANs) Specialization, from deeplearning.AI
- 2022 Deep Learning A-Z™: Hands-On Artificial Neural Networks, on Udemy.
- 2021 Machine Learning A-Z™: Hands-On Python & R In Data Science, on Udemy
- 2021 Certified Information Security Manager (CISM), from Udemy
- 2020 The Complete Web Development Boot-camp by Dr. Angela Yu, on Udemy.
- 2018 Certified Ethical Hacker V10 Course at Soutech Ventures, (www.soutech.com/).