

McAnthony Otuonye

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Portfolio: <https://cybersecurity-portfolio-sable.vercel.app/>

PROFILE:

Final-semester MSc Computing student and CompTIA Security+ certified professional. Experienced in developing Python-based security tools and Splunk for threat detection. Knowledgeable in network protocols (TCP/IP, DNS, DHCP) and cybersecurity frameworks. Transitioning from analytical chemistry allowed me to combine my problem-solving skills with technical expertise. Currently learning Linux with Canonical to strengthen system security expertise. Strong analytical skills, problem-solving abilities, and time management ensure effective IT security and support.

EDUCATION

Master of Science | Computing | Edge Hill University

2024 - 2025

Bachelor of Science | Biotechnology | Dublin City University

2018 - 2022

Projects

- **Lightweight Intrusion Detection System** – Developed a real-time, explainable XGBoost-based IDS using the IoT-23 dataset. Achieved **high accuracy with minimal resource usage** and integrated SHAP explainability, **benchmarking against deep learning models**.
- **Log Analysis Dashboard** – Built a **Python-based dashboard** to visualize log data, facilitating rapid anomaly and threat detection.
- **Security Monitoring Web App** – Developed a **Python web app** with **role-based access control** (RBAC) for logging and monitoring user activity.
- **Network Firewall** – Created a **Python firewall** using Scapy with **signature detection, rate limiting, protocol filtering, and IP management** for enhanced security.
- **Networking Presentations** – Delivered presentations on key networking concepts, including the **OSI Model, TCP/IP, subnetting, DNS, DHCP, NAT, routing, VPNs, and switching**.
- **Cybersecurity Reports & Presentations** – Researched and presented comprehensive reports on **ISO 27001, NIST, SIEMs, firewalls, IDS/IPS, log analysis, packet inspection, RBAC, threat detection, vulnerability assessment, and risk management, identity management**

Certifications

CompTIA

- Security +

LinkedIn Learning

- Computer Networking Basics
- Cloud Computing : Core Concepts
- ISO27001 Compliance
- Splunk Fundamentals
- Linux by Canonical (in progress)

EXPERIENCE

JobFair | Front-end Developer - Intern | Lancashire

Dec 2024 - Present

- Developed and optimised front-end features using Vue.js and Tailwind CSS.
- Integrated APIs and implemented authentication using FastAPI.
- Ensured responsiveness, efficiency, and cross-browser compatibility.
- Utilised Git for version control and collaborative deployment
- Experienced with Docker for containerisation
- Used Asana to track progress and meet project goals
- Created reusable components to improve development efficiency and maintain design consistency
- Collaborated with designers and backend developers to deliver seamless user experiences

Merieux Nutrisciences | QC Chemistry Analyst | Newbridge, Kildare

Sept 2023 - Dec 2023

- High Volume finished product testing of food products
- Responsible for the testing of free fatty acids, Peroxide value, Insoluble Impurities and Hydroxyproline
- Maintaining product organisation for efficient testing regime
- Reporting results within specified timeframe, ensuring deadline is always met

Pfizer | QC Chemistry Analyst | Dublin

Oct 2022 - Sept 2023

- Finished product testing within a large-scale GMP manufacturing facility
- Responsible for ICP-OES, Lowry, Extractable volume, pH, Closed container integrity, Sodium chloride buffer titration, UV, Appearance
- Undertook responsibility of Total Productive Maintenance champion to address calibration and maintenance of laboratory equipment such as LACs, HPLCs, centrifuges, ensuring laboratory was always running smoothly
- Involved in the Pfizer WALK programme for disadvantaged individuals as a mentor providing them an insight on our day-to-day operations

SKILLS

Technical Skills & Knowledge

- **Cybersecurity & Networking** : Python, ISO 27001, Splunk, Linux, HIDS, TCP/IP, DNS, DHCP, HTTP, UDP, Firewall, VLANs, NAT, IPSec, SSL/TLS, NAC, network segmentation
- **Data Analysis**: Python, Anaconda, Pandas, NumPy, Scikit-learn, Matplotlib, Machine Learning
- **Development**: HTML, Vue.js, Next.js, Tailwind CSS, Git, Docker
- Microsoft Office
- Troubleshooting technical equipment
- Excellent ability to collect and analyse significant portions of information with attention to detail and accuracy
- Experienced working in a fast-paced and continuously changing environment

Communication

- Exceptional oral and written skills
- Excellent ability to report information which has been obtained through academic report writing

Organisation

- Formidable organisation skills and time management obtained by professional experience and balancing university with part-time jobs and extracurriculars

References

References available upon request