

# Anthony Mendonca

[tmendonca28@gmail.com](mailto:tmendonca28@gmail.com) | [anthonymendonca.me](http://anthonymendonca.me) | [linkedin](https://www.linkedin.com/in/anthonymendonca) | [github](https://github.com/anthonymendonca)

Security engineer interested in product and application security

## EXPERIENCE

---

### Cyber Risk Consultant

Sep. 2021 - Present

*Deloitte*

*London, UK*

- Swiss luxury watch maker: Led design of the firewall log and rule management solutions as part of its network security transformation. This involved understanding the as-is, highlighting current gaps and detailing a proposed solution.
- Global consulting services client: Developed technical implementation guidance with relation to ransomware server hardening hence proactively preventing ransomware attacks. Done using PowerShell scripts and Chef recipes
- Global consulting services client: Developed a next generation secure network strategy that would underpin its' global network security transformation by building out use cases and effectively socialising them with C-Suite level executives. Included adoption strategies for Secure Access Service Edge, SD-WAN and Zero Trust
- National scientific research client: Led development of low-level system implementation guidance to improve their current security posture. This was a post-vulnerability assessment activity and improved the organization's security posture by 75%

### Cyber Security Intern

Sep. 2019 - June 2020

*British Telecommunications Group*

*Ipswich, UK*

- Led development for a neural network model that increases the proactive detection of malicious domains by 70%
- Developed Splunk queries and dashboards to determine root cause analysis of device misconfigurations leading to 75% increase in turnaround time
- Built automation tools related to detecting secrets exposed on GitHub and DNS hygiene increasing BT's security posture by 80%
- Developed threat intelligence queries on Microsoft ATP platform using KQL to detect Privilege Escalation

### Software Engineer Intern

June 2018 - Aug. 2018

*IBM Research*

*Nairobi, Kenya*

- Led the development for a diagnosis and testing tool for cloud-based microservices increasing API response times by 60%. This [work](#) was then further extended by other research teams in agriculture, financial services and healthcare to reduce latency
- Implemented unit tests using Java (Spring Boot) with JUnit and Mockito increasing test coverage
- Implemented integration and load tests in Python using Locust to gauge and improve API responsiveness

## TECHNICAL SKILLS

---

**Languages:** Python, Java, Golang, SQL, JavaScript

**Cloud & Deployment:** GCP, AWS, Docker, Kubernetes, Chef

**Security Skills:** Penetration Testing, Threat Modelling, Web Application Firewalls, Reverse Proxies

**Security Tools:** Wireshark, Nmap, Burpsuite

## PROJECTS

---

**Deep Learning for Network Intrusion Detection** | *Python, PyTorch, NumPy, Pandas, Google Colab*

- For my Master's thesis, I worked on creating a network intrusion detection classifier that discerned between malicious and normal network traffic
- Done with an emphasis on deep learning using Recurrent Neural Networks and Multilayer Perceptrons

**DeepPhishing** | *Python, Keras, Numpy, Pandas, Google Colab*

- Developed a Long Short-term Memory (LSTM) model to detect and classify malicious (from PhishTank database) and benign domains (from Cisco Umbrella 1 million)

## EDUCATION

---

**Queen's University Belfast**

Belfast, UK

*MSc. Applied Cyber Security*

*Sep. 2018 - June 2020*

**University of Nairobi**

Nairobi, Kenya

*BSc. Computer Science*

*May 2013 - Sep. 2017*

## CERTIFICATIONS

---

**COMPTIA Security+**: March 2021 - March 2024

**GCP Associate Cloud Engineer**: April 2022 - April 2025