

# Anthony Mendonca

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Security engineer interested in product and application security

## EXPERIENCE

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### Cyber Risk Consultant

Sep. 2021 - Present

*Deloitte*

*London, UK*

- Developing a secure network design for a Swiss luxury watch maker. This involves implementing network security best practices, conducting threat modeling using the MITRE ATT&CK framework and ultimately building out a network security strategy
- Developed technical implementation guidance with relation to ransomware server hardening for a global consulting services client. Done using PowerShell scripts and Chef recipes
- Developed a next generation secure network strategy implementation roadmap that would underpin the global network security transformation for a multinational consulting services client. This included adoption strategies for Secure Access Service Edge and Zero Trust
- Developed low-level system implementation guidance to improve the current security posture for a national scientific research client. 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*

- Developed 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*

- Designed and developed features 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

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**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

**ML Frameworks & Tools:** Keras, PyTorch, Sci-kit Learn

## PROJECTS

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[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

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**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

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

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