CV

James Cotterill

jacotterill10@hotmail.com 07531891094 Bristol, UK

I am a Cyber Security graduate, with a passion for technology, looking for a role to implement my skills in a real-life security setting. I have gained a master's in cyber security from UWE where I learned a wide host of topics, whilst engaging in several separate projects and societies such as the CTF society and the AI-driving society. In my own time I love to research the latest security topics and build my own projects, I also enjoy attending security conferences such as the Bristol OWASP events.

Education

Masters-Distinction-Cyber Security-UWE

- Cyber Analytics: Studied data science using python to analyse complex cyber security data for example malware analysis and then used Splunk software to analyse malicious traffic
- Information Risk Management: Researched the importance of risk management and standards such as ISO27001 and presented a full risk assessment of a retail company
- Forensics: Learnt and performed various forensic analysis on a case image using applications such as EnCase and autopsy to discover files and history deleted by the user
- Computer Network Security: Studied network protocols and cryptography that secures the internet such as public key infrastructure and TCP/IP protocol. Then learnt and implemented attack methodologies such as Linux privilege escalation and USB attacks using a rubber ducky
- IOT Security-Built two Internet of things systems using Arduino hardware and then sent an encrypted message using one system and decrypted with the other system

Projects

Masters Project-Blockchain anonymisation Forensics

- My final project worth 50% of my master's final grade is a forensic practical study into the anonymisation of blockchain addresses. This is something very interesting to me due to the interesting technology that makes the blockchain technology, where the main appeal to this system is its anonymity. Adding to research on breaking the anonymous nature of this technology would have huge implications on global finance. I will study heuristic clustering using python programming in my research.

AI-Driving competition

- This was such an interesting project to me, working in a big team to achieve a tangible goal of building a functioning AI-driving computing system to race in the FS-AI competition at Silverstone
- My role was to map the track boundaries within the planning and control team using Python and AI libraries.

Work Experience:

Lyons Davison: 2023

Lifetime Training: 2021-2022

Wetherspoons: 2023-2024

Volunteering:

British Heart Foundation: 2023

Skills:

Programming

Digital Forensics

Cyber Analytics (SIEM)

Knowledge of relevant standards (ISO, NIST)

Network Security (red team, blue team, network protocols)

Tools:

Wireshark

Nmap

Splunk

Languages:

Python

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