Mairi McQueer

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Education

University of Abertay Dundee *2017 - Present*
BSc(Hons) Ethical Hacking - Expected end date: 2021
GPA: 3.75/4.5 (Degree Band - 1:1)

British School Muscat *2015 - 2017*
A-levels: Computer Science, Business Studies and Psychology.
AS-level: Critical thinking
Completed eight GCSE qualifications

About Me

I am currently in my 3rd year of studies, on the Abertay University Ethical Hacking course. In my free time I am involved in many societies including the Hacking and Roleplay societies. As part of this I am currently the secretary, and previous treasurer, of the Feminist society.

I am currently working with a number of other students in Ethical Hacking to provide workshops and talks for schools, in order to encourage children, especially girls and trans students, to go into this field of study.

I have spent most of my life away from Scotland, living in England, Germany, Northern Ireland, Israel and Oman. This has allowed me to become very adaptable to novel situations and different social environments. I am fond of teamwork, both as the leader of the group or simply as a member but I am not afraid to work independently on a project either. My favourite aspect of my course, and this field in general, is currently facial recognition software and digital forensics.

Skills

Soft Skills
Some of my other skills lie in research paper, Court Forensic paper and white paper style report writing. As well as; speech writing, teamwork, both as a team leader and member, and statistics for data analytics.
I have also given numerous presentations as a part of university, Abertays Hacking Society and have assisted with giving a workshop at Edinburgh Napiers ENUSEC as well as one at Glasgow Clyde College as part of a SmartSTEM event.

Programming Languages
Comfortable with C++, Python 3(including Twython), Arduino C, HTML, CSS, Java, JavaScript, PHP and SQL. I have a brief understanding of Assembly, Django including the REST framework and Swift.

Software Proficiencies
I am proficient in the MS Office software suite and LaTex. For programming I have used such IDEs as; Brackets, WinGHCi, PyCharm, the Arduino IDE and Visual Studio. Relevant tools I am confident in using include: Powershell, Wireshark, S-Tools and StegSpy, Foremost and the Autopsy Suite.
Operating systems I have experience with Windows (XP, Vista, 7, 8 and 10), MacOS (10.6 to 10.14), Ubuntu 16.04, both Manjaro and Fedora GNOME and XFCE as well as Kali Linux.
I also have some experience with both Database management, Cisco packet tracer and website development.

Projects and Presentatioms

Network Penetration Test   *2018*

For this assignment I was given a virtual network to map, attempt to exploit and then produce a report on my findings. This served as an introduction to Kali Linux, Metasploit, the CVE database as well as basic penetration testing scanning and analysis tools. This particular report also taught me how to assess a network and make recommendations to a client for security improvements.

John Doe Forensic Analysis   *2019*

A group project as a part of my second year in university, the task is to create a court report of evidence gathered from a hard disk drive belonging to an accused bird watcher. This has given me an understanding of a larger array of Linux command line and digital forensic tools as well as use LaTex in Overleaf. I have also learned how to organise a group and format a Scottish court report.

Network Security Assessment   *2019*

As a part of my second Networking module I was provided with a server and a Kali Linux instance and asked to both map and assess the network. This gave me a much more in depth understanding of networking logic and topologies as I was required to create a network map. I also furthered my Linux command line understanding as well as how to remotely access devices, get past firewalls on a network and mitigations for various security vulnerabilities.

Facial Recognition Avoidance talk   *2019*

This was entirely outwith university and a project I decided to undertake on my own accord as I have a fascination with the topics of Artificial Intelligence and Facial Recognition software. I gave an hour-long talk on the basics of how this software and deep neural networks work and various techniques used around the world to evade these algorithms. I am planning on submitting a revised version of this talk at a conference this year.

Hobbies and Extra-Cirrucular

My hobbies include painting, reading and origami; I especially enjoy reading academic books and papers, as well as watching documentaries on a wide assortment of topics.

When I get the opportunity, I like to attend Cyber Security Conferences and capture the flag events. As of writing I have been to; Cyber Re:coded 2018, BSides Glasgow 2018, the Scottish Universities Cyber Challenge 2019, Le Tour De Hack 2019, Bsides Scotland 2019, BSides London 2019 and I volunteered at Securi-tay 2018 and 2019 as well as BSides Manchester 2019.

References

References available upon request.