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Profile

A versatile, enthusiastic and competent 'Ethical Hacking and Countermeasures' graduate who always strives to achieve a high standard in whatever is undertaken. Hard working, reliable and resourceful with excellent organisational and staff management skills, combined with the ability to prioritise a substantial workload. Has gained a variety of techniques and procedures and can work effectively alone or as part of a team. Sociable personality with a friendly approach.

Goals

Hard working 'Ethical Hacking and Countermeasures' graduate seeking to apply the knowledge and skills gained at university and within the 5 years' work experience to further develop them and learn new skills and techniques within a well-established company.

Projects

During my time at work I have gained valuable experience and knowledge from the following projects:

Circulation System

Extracting data from the new Circulation System and transforming the data into files in readiness to be consumed by the Financial System. Similarly, extracting information from the Financial System into the Circulation System for reporting purposes. Reporting was a requirement for the client to understand their sales. Accessible via an Internal Web Application which was built with Self Service in mind to allow the client to control everything up to the users who had access to system. The internal application also allowed them to run day to day processes when they had completed everything in the Circulation System. Similar work was then commenced with the new Advertising System and the Sales Ledger that came with it.

Data Warehouse Project

The old Data Warehouse ETL processes took on average 14 hours to complete. Each time the process ran it cleared out all the import tables and re-loaded the data completely which was very time consuming. As the server was soon to be decommissioned, a new project was started to make the ETL Processes more efficient. Marking the data rows as new or changed and transforming only the new and changed rows reduced the load time from 14 to 4 hours. It was also very cost effective as this work would have been costly if they hired external support to transition this to the new server.

Office 365 Tools

Diving into the new world of Microsoft Power Platform was a very interesting, Power Automate and Power Apps are very low code solutions to non-technical users. To gain an understanding, several proofs of concepts were created and later developed into production applications being used daily.

These applications used the free connectors from Microsoft which had no costing to the company but effectively saved them a lot of money with manual labour-intensive tasks. There was also a need to cost licenses per department or group, and by using Microsoft Graph API to extract the license information this allowed the costing to be showcased to each department/group and allocate the costs to the correct cost centre. Also, highlighted any users with additional costly licenses which they did not require.

MVC Applications

Internal Applications allow departments to control all the data they need to control from a simple ASP.NET MVC application accessible on the network or external on the internet. These applications are all self-service to take away the need for helpdesk to get involved with administering user setup. These applications were all built with Bootstrap and Syncfusion which gave a unique experience for the user when visualising data in grid views. Some applications went further by uploading photographs, tagging, and re-sizing them in readiness for consumption by WordPress and the Photography System. This allowed photographers to be assigned a job from a reporter or editor and to upload them from the venue or location without the need to send them via email. The photographs would be tagged with the relevant information to get the story out within minutes instead of hours. The tagging would also be used for payment purposes as well to the Financial System.

Further back, during my time at university I gained other valuable experience and knowledge from the following projects:

Exploit Development – Mediacoder 2011 RC3

Tutorial on how to successfully illustrate a buffer overflow attack on a Windows based application and gain control of the computer remotely (via command prompt). This exploit was developed under a Windows XP SP3 virtual machine and was developed with Data Execution Protection (DEP) enabled and disabled.

An Evaluation of a Man-In-The-Middle (MITM) Attack over HTTPS using Cain

Three fake accounts were set up on Facebook, Twitter and Google Mail. The aim of the investigation was to see if a hacker could intercept the transmission to capture credentials when logging into these social platforms. This was proven on a variation of web browsers and investigated each browser's concept of security with unsecure networks.

Contactless Payments: How Safe is your Money?

This was a group project which investigated the ever increasingly popular technology – Contactless Payments. With more people using Contactless Technology, not everyone is fully aware of the risks that this technology brings to them.

An Examination of Cross-Site Scripting (XSS) in bWAPP

A major security flaw in web applications is Cross-Site Scripting (XSS). This is a way of untrusted and invalidated code being placed onto websites by a malicious hacker. The effects of a Cross-Site Scripting (XSS) attack can exploit personal data, deface webpages or hijack a victim's computer.

iOS Security; The Flaws and Known Exploits of the Mobile System

This was a research project which investigated iOS Security. It involved looking at the security measurements, encryption, and prevention of unauthorised access that are built into the device and the operating system to prevent data leakage, unauthorised access and malicious activity on the device.

Skills

Developing Programming Languages

Industry Experience: ASP.NET MVC, C#, SQL Server, JavaScript, Syncfusion, SQL Server Integration Services, SQL Server Reporting Services, Power BI, API, Microsoft Power Platform, Power Automate, Power Apps, Microsoft Graph, Sybase Database, Cache Database, Entity Framework, LINQ

Academic Experience: Python, Perl, Ruby, Java, C, C++, PHP, MySQL

Penetration Testing Skills

Academic Experience: Metasploit, Hydra, John the Ripper, OllyDbg, Wireshark, Nessus, Nmap, Cain and Abel

Digital Forensic Skills

Academic Experience: Foremost, Test Disk, Autopsy 3 & 4

Website Skills

Industry & Academic Experience: Website Maintenance, Website Monitoring, Website Upgrades

Personality Skills

Industry & Academic Experience: Timekeeping, Excellent Problem Solving, Teamwork, Excellent Diagnostic Skills, Excellent Communication, Determined, Quick Learner

Work Experience

DC Thomson & Co. Ltd. – Software Developer (2018 – Present)

- Prioritising workload of tasks and projects
- Creating and maintaining deadlines
- Reviewing and updating project progress
- Contributing to meetings on regular basis
- Troubleshooting unexpected faults and errors
- Continued Web & Application Development
- Further work into Data Preparation & Transformation
- Expanding knowledge on new programming languages and concepts
- Continued mobile first programming
- Microsoft Power Platform
- Data Transformation & Visualisation
- Attending Conferences (BoardVille 2019 & Simpson Associates 2019)

DC Thomson & Co. Ltd. – Junior Developer (2016 – 2018)

- Planning and organising of tasks and projects
- Developing solutions for projects and tasks
- Working with deadlines and documenting project progress
- Attending meetings on regular basis
- Fixing daily faults and errors
- Fault finding
- Web & Application Development
- Learning new programming languages and concepts
- Mobile first programming

McDonalds – Crew Trainer (2014 – 2016)

Leadership of crew members and training them to high standards
Completing Station Observation Checklists (SOCs) for training purposes
Supervision of the restaurant during manager meetings
Attending meetings to stay up to date with procedures and changes
Motivating crew to give best possible experience for customers
Engaging and helping customers during their visit
Experience of the Future Champion
Organisation of crew nights out
Organisation of charity events for Ronald McDonald Houses Charity (RMHC)
Considered to progress to management

McDonalds – Customer Care Assistant (2012 – 2014)

Engaging with customers on a regular basis
Ensuring that the dining area and car park were regularly clean
Ensuring that the condiment areas were fully stock throughout shift
Ensuring customers are happy and looked after for entire visit
Dealing with customer complaints efficiently and professionally
Certificate in Customer Care from McDonalds University

Education**Abertay University (2012 – 2016)**

BSc (Hons) Ethical Hacking and Countermeasures
Upper 2nd Class (2:1) Honours Classification

Craigie High School (2006 – 2012)

3 Scottish Highers: Mathematics - A, Computing – A, Physics – B
1 Intermediate Two: English B
8 Standard Grades: Maths – 1, Craft and Design – 1, Computing – 2, English – 2, Physics – 2, Chemistry – 2, Geography – 2, French – 3

General Interests

- Socialising
- Volleyball - Club Secretary for Abertay Volleyball Club, Treasurer & Website Designer for Angus and Dundee District Volleyball Association 2014-2016 (ADDVA)
- Music
- Movies
- Golf:
 - Member at Strathmore Golf Club 2007-2013 and then 2016-2021
 - Junior Club Captain 2011
 - Assist to Junior Convenor 2016-2021
- PGA Level 1 Volunteer Golf Coach 2019-2021

References Available Upon Request