**Jack Cavar**

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**Professional profile:**

A dedicated worker when it comes to any task including necessary skills with project management such as independent research, leadership, and team management. Very interested in the cybersecurity sector particularly towards scripting Internet of Things devices and machine learning solutions. Have proficient knowledge within programming languages such as Python and C++ with familiarity in Java and PHP. Graduated with a 1st in BSc. (Hons) Ethical Hacking in May 2024. Background in voluntary sector providing good customer and employee relationship skills.

**Professional skills:**

* **Public speaker:** Prepared and presented a live TV hack to a public audience of different skill sets to bring awareness to IoT security breaches.
* **Project management:** Worked with a university team as project leader to develop a botnet exploit framework for internet of things devices.
* **Employee and customer engagement:** Delivered consistent professional customer and employee engagement throughout voluntary roles worked within.

**Recent technical achievements:**

* **Machine learning QR code scanner:** Developed a machine learning model to classify a benign or malicious URL as part of a dissertation. Further implemented into a prototype QR code scanner app which tells a user of the code’s safety before accessing its content.
* **Graduate show display:** Presented the prototype QR code scanner at the Abertay University Digital Graduate Showcase. Awarded the Jody Gallagher Award for Innovation.
* **Accessible game creation:** Designed, produced, and presented an entertaining, engaging, and accessible game as project manager for Morgan Stanley’s Code to Give Hackathon 2023.

**Career summary:**

**Laboratory Assistant – Year 1 programming** *September 2023 – April 2024*

**Part time, Abertay University**

*Public university in Dundee with a strong focus for preparing students for the world of work.*

**Responsibilities:**

* Assist students who are struggling with c++ and programming concepts in weekly lab sessions.
* Ensure that the students understanding of a programming concept is correct.

**Achievements:**

* Gained experience in explaining coding concepts in a simple, understandable manner.
* Improved my confidence in public speaking to large groups of people.
* Increased the student satisfaction with the module in the course by being a friendly, approachable figure in the class.

**Project manager** *September 2022 – May 2023*

**University group project for PA consulting**

*PA Consulting’s main aim is to innovate new creations to improve humanities future.*

**Responsibilities:**

* Ensure that correct placement of team members in their roles in the project are succinct with their own strengths.
* Research and discover vulnerabilities within internet of things devices.
* Create python-based scripts of the discovered exploits.
* Help develop a botnet framework which will allow for internet of things devices to be automatically exploited with created python scripts.
* Ensure that client and employee relations are kept strong throughout development through bi-weekly meetings.

**Achievements:**

* Conducted consistent communication to ensure that project cycle ran smoothly.
* Improved the team’s workflow by acting pre-emptively to ensure that each member of the team could comfortably do the necessary work for the project.
* Identified any potential risks throughout the project lifecycle and the necessary mitigation techniques which could be used to counteract any such as incorrect devices given by the clients etc.

**Volunteer** *May 2022 – August 2022*

**Instant Neighbour**

*Instant Neighbour is a non-profit charity which supports low-income families using a* *food bank and by selling cheap furniture and bric-a-brac.*

**Responsibilities:**

* Managing and sorting through furniture, items of clothing and food donated by members of the public.
* Using effective communication to ensure that customers were treated correctly and that peers knew what was going on during day-to-day operations which allowed for a good work environment.

**Achievements:**

* Developed appropriate techniques to talk and deal with requests of customers within the shop.
* Built strong relationships with employees within the company.
* Helped on average 100 customers everyday throughout the store**.**

**Education, memberships, and personal development:**

* Employed as a gardener over the Summer of 2023
* Attended a university linked cyber summer school in Amberg-Weiden, Germany - Summer 2023.
* Presented at offer holder days in Abertay University displaying a successful module project.
* Two-time volunteer for the 2023 and 2024 “Securitay” Conference. The largest student run cyber security conference in Europe.
* Member of the Abertay University Tennis club.
* Advanced higher computing at grade C with multiple Highers ranging from A to C in Business management, English, Chemistry, and Physics.