CHRISTOPHER CLAPHAM

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EMPLOYMENT

Deloitte – Cyber Consultant   **Oct 2021 – Current**

I support the Risk Advisory team with cyber security expertise for public and private clients. I contribute to security engineering, internal application development, cyber risk assessments and risk management.

D.osint (OSINT application)

- I developed a python-based GUI application that combined common open-source intelligence (OSINT) tools to perform reconnaissance on a target domain or IP address. The modularised application used APIs and multi-threading to gather data and display results for further analysis.
- The application's front end was built using the PyQT5 framework and runs as a standalone Windows executable.
- I reduced the time to display results in CSV format by 60% from the initial development.

Penetration Testing

- Using OSINT tools via APIs and Kali Linux, I conducted assessments on private and public organisations to identify security vulnerabilities.
- I analysed and compiled vulnerabilities into detailed security reports, which were used to develop tailored solutions for clients. Findings and remediation actions were presented back to developers and C-suite stakeholders.

EDUCATION

Victoria University of Wellington   **2021 – 2022**

- Master of Software Development (MSwDev), GPA: 6.92
- Graduate Coursework: Software Foundations; Programming Languages; Computer Architecture; Algorithms; Operating Systems; Databases; Software Development Life Cycle

Otago Polytechnic   **2014 – 2016**

- Bachelor of Design (Communication), GPA: 5.78
- Undergrad Coursework: Web Development (JavaScript/HTML/CSS); Web Design; Front End Design; User Experience

PROJECTS AND ADDITIONAL EXPERIENCE

Network Port Scanner

github.com/ranCMD/GoPortScanner

- Network port scanner that detects open ports on a given IP address written in Go. Utilises multi-threading (Goroutines) to optimise performance and command-line functionality for ease of use.

Software Hackathon

- Tasked with designing a software app in collaboration with UX students that appeals to Gen Z's in safely finding flatmates. Produced Java app to read CSV inputs, filter with user preferences and display results.

Hacky Holidays

- Capture the flag (CTF) challenge hosted by Deloitte. Using penetration testing tools (Netcat, Wireshark, Nmap, Burp Suite, Metasploit) to beat challenges. Placed in the top 100 of NZ teams.

WomeNB in Cyber (Woman and Non-binary)

- Supporting young women and non-binary students from diverse backgrounds engage with cyber security, online safety, and future cyber security careers with Deloitte's support. Running in-person workshops with activities and presenting computer hacking to the students.

LANGUAGES, TECHNOLOGIES, AND CERTIFICATIONS

- Java (proficient); Python (proficient); SQL (proficient); JavaScript/HTML/CSS (proficient); Bash (prior experience); Node.js (prior experience); PHP (prior experience); Go (prior experience)
- SQLite (proficient); MySQL (prior experience)
- Linux (proficient); Windows (proficient)
- Visual Studio; Eclipse; PyCharm; Android Studio; Git; PyQT5; JavaFX
- AWS Certified Developer – Associate (currently studying); AWS Security Fundamentals (Second Edition)