Josh P. Hamwee

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EDUCATION

University of Bristol – *BSc (Hons) Computer Science – Upper Second-Class Honours* **2017 - 2020**

- My areas of interest were Software Engineering, Machine Learning and Cybersecurity. This degree provided me with a solid grasp of the fundamentals of Computing, while increasing my analytical problem solving.

Harrow School - Middlesex **2012 - 2017**

- **A-Levels**: Mathematics (A*), Further Mathematics (A), Physics (A)
- **Head of the Computer Science Society**, which had roughly 25 members. Organized and led weekly meetings, planned and executed events, and collaborated with faculty to promote computer science education.

WORK EXPERIENCE

Pacific AM – *Software Developer/Engineer, Finance* **May 2023 – Present**

- Facilitated the internal ETL system's transition from SSIS to Python.
- Developed Python-based reports for in-house analysts and external regulatory bodies.

Microsoft – *Cloud Security Response Analyst, Cybersecurity* **March 2021 – October 2022**

- Managed security operations for a complex cloud platform as a SOC Analyst, successfully triaging and investigating over 1000 incidents.
- Analysed and modified over 30 detections to improve their fidelity, resulting in a reduction in false positives and an increase in detection accuracy.
- Developed and utilized skills in forensic analysis to investigate and contain more advanced threats, resulting in the identification and remediation of several critical security vulnerabilities.
- Leveraged machine learning and scripting to automate day-to-day processes and reduce manual workload in laborious tasks by 50%, saving the team over 10 hours per week.
- Mentored a team of Summer 2022 interns, overseeing the successful completion of 2 projects and presenting training sessions on cloud security and incident response.

Reliance ACSN – *Penetration Testing/SOC Intern, Cybersecurity* **June 2018 & 2019**

- Broadened my knowledge of the cybersecurity industry and introduced me to how a red team operates while working under the arm of the penetration testing team. Here I compiled a comprehensive report on a lab environment, showcasing my analytical skills and attention to detail, which was well-received by the team and contributed to the company's knowledge base.
- Participated in a larger intern team during my second summer and contributed to setting up a virtual blue/red team lab environment to test pen-testing and detection writing skills, which strengthened my networking knowledge and provided me with insights into how a SIEM is built and operates.

PROJECTS & EXTRACURRICULAR ACTIVITIES

Development of a Recommendation System – *Hype Cycle*

- Led the development of a sophisticated recommendation system for a startup, utilizing a complex matching engine to deliver tailored social media influencer recommendations for brands' targeted advertising campaigns.
- Engineered an API in Python that seamlessly integrated the recommendation system into the startup's existing website, providing a streamlined end-to-end solution.

Detecting Online Scammers using Machine Learning – *Bristol University*

- Conducted a research project for my final year dissertation, utilizing machine learning techniques to detect fraudulent activities in online dating profiles, with a particular focus on scam detection.
- Developed and fine-tuned various machine learning models, including decision trees, random forests, and k-NN, to achieve high precision and recall rates in scam identification.
- Utilized Python and data analytics tools such as Pandas and Scikit-learn to pre-process and analyse data and visualized the results in a clear and concise manner.

AWARDS, SKILLS & INTERESTS

Awards: Gold Math's and Physics Senior Olympiads in 2017, Commended in the Cambridge Computer Science Essay competition.

Programming Languages: Worked with Java, Python and C/C++ to a high level whilst at University. Used Javascript for Web-based side projects, and Python for my current role.