

# Jay Sweeney

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## PROFILE SUMMARY

Cyber Security & Networks graduate (BSc Hons, 2:1) from Glasgow Caledonian University (Class of 2025) with hands-on experience in network defence, intrusion detection, and secure systems administration. Proven ability to apply technical knowledge and analytical skills to practical security problems through academic projects and technical coursework. Skilled in Linux hardening, vulnerability assessment, and threat analysis, seeking a graduate or entry-level role in Security Operations (SOC), Network Security, or Threat Detection.

## KEY SKILLS

Network Security, Intrusion Detection Systems (IDS), Vulnerability Assessment, Security Information and Event Management (SIEM), Linux System Administration, Incident Response, Python for Security, Wireshark, Kali Linux, Burp Suite, Information Security, Analytical Thinking, Team Collaboration

## EDUCATION

**Glasgow Caledonian University** — BSc (Hons) Cyber Security & Networks, Upper Second-Class Honours (2:1)

Graduated July 2025 | Glasgow, Scotland

**Key Modules:** Network Security, Ethical Hacking, Secure Systems Administration, Cryptography, Cloud Security

**Tools:** Wireshark, Nmap, Kali Linux, Burp Suite, LogRhythm, Python, TensorFlow, Packet Tracer

## PROJECTS

Federated Learning for IoT Intrusion Detection (Honours Project)

- Developed a federated learning-based IDS using TensorFlow and Flower, training a 1D-CNN on CICIDS2017 data across IoT clients.
- Applied gradient quantization to reduce communication overhead while maintaining model accuracy.
- Evaluated model performance on accuracy, latency, and communication cost metrics.

Security Assessment of Industrial Control Systems (ICS)

- Conducted vulnerability scans and traffic analysis on a simulated ICS using Nmap and Wireshark.
- Simulated MITM and perception-layer attacks to test system resilience and identify vulnerabilities.
- Proposed mitigation strategies to enhance ICS network security.

Secure Linux Server Administration

- Installed and hardened a CentOS 7 server with SSH restrictions, SELinux, and firewall rules.
- Automated setup and configuration using Bash scripts for secure and consistent deployment.

## **WORK EXPERIENCE**

### **Café Team Member — Tesco**

Aug 2022 – Present | Glasgow, Scotland

- Managed secure cash handling, reconciliations, and store lock-up duties.
- Delivered high-quality service while maintaining operational reliability and attention to detail.

### **Delivery Driver — Domino's Pizza**

Jan 2022 – Aug 2022 | Glasgow, Scotland

- Handled deliveries and cash transactions accurately and efficiently.
- Enhanced problem-solving and teamwork skills in high-demand settings.