

Hamad Abdullah

Cybersecurity Graduate | Digital Forensics & Security Research

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LinkedIn

PROFILE

MSc Cyber Security (Swansea) and BSc Computer Science (Cardiff) graduate specializing in digital forensics, threat intelligence, and applied security research, with dissertation work in OT/ICS honeypots and zero-knowledge blockchain voting. Open to analyst, research, or teaching-support roles.

EDUCATION

MSc Cyber Security, Swansea University (Distinction)	Jan 2025 – Jan 2026
BSc Computer Science, Cardiff University (2:1)	Sep 2021 – Sep 2024
International Foundation Year, Cardiff University (Student of the Year)	Jan 2021 – Aug 2021

PROJECTS

ShellSift (obfuscated PowerShell triage tool)	2026
- Built a FastAPI service and web UI that scores PowerShell scripts for malicious probability with a Random Forest trained on lexical and entropy features, cutting first-pass SOC triage to one paste-and-score action. - Added SHAP explainability so each score shows the features driving it (entropy, encoded commands, suspicious cmdlets).	
Zero-Knowledge Blockchain Voting System (MSc dissertation)	2025
Designed a secret-ballot voting system on Ethereum using Solidity and zero-knowledge proofs, verified with a Hardhat test suite across multiple voter, candidate, and race scenarios, plus a MetaMask web client.	
ICS Honeypot for Threat Intelligence (BSc dissertation; supervisor: Dr. Neetesh Saxena)	2024
- Deployed and evaluated ICSpot, a honeypot emulating both network and physical layers of an ICS, in an isolated virtual lab to test whether physical-layer emulation yields more actionable threat intelligence. - Addressed a gap found in the literature review: most ICS honeypots ignore the physical processes PLCs control.	
Also completed five applied ML projects (NLP and CNN classification, KNN recommendation, regression) for the freeCodeCamp Machine Learning with Python certification.	

TECHNICAL SKILLS

Security & Forensics: DFIR, threat hunting & intelligence, SIEM & log analysis (Snort), penetration testing (Nmap, Burp Suite, Kali), OT/ICS security, malware analysis

Programming: Python, JavaScript, Solidity, C++, SQL, scikit-learn / applied ML

Tools: Linux, Git, FastAPI, Docker, virtualized labs, Hardhat / Ethereum tooling

Research: Technical writing (two dissertations), literature review, lab teaching and tutoring

CERTIFICATIONS & AWARDS

Security Ops: SOC Analyst Level 1 (TryHackMe, 2024); Google Cybersecurity Specialization (Coursera, 2023)

Offensive & Malware: Malware Development Course (MalDev Academy, 2024); OT Threat Hunting (Coded, 2024); Nmap & Burp Suite (Packt, 2024); Kali Linux (Board Infinity, 2024); Phishing & Social Engineering (Coded, 2024)

AI / ML: Machine Learning with Python (freeCodeCamp, 2026); Neural Networks & Deep Learning (DeepLearning.AI, 2023); AI Fundamentals (IBM SkillsBuild, 2026)

Awards: Smart Code Award & 2nd Rank, Kuwait Robot Challenge, KFAS (2019)