Zaid Daghash

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PROFESSIONAL SUMMARY

Computer Systems Engineering graduate with First Class Honours (GPA: 4.0) from The University of Sheffield and a current MSc Cyber Security student at Liverpool John Moores University. Experienced in project leadership, cross-functional collaboration, and delivering innovative engineering and software solutions under tight deadlines. Open to opportunities across all sectors to apply technical and problem-solving expertise while contributing to organizational success.

COMPETITIONS

Capture The Flag (CTF) – National Cyber Security Agency (NCSA) *2025*

Rosewood Doha Hotel | Qatar

KEY PROJECTS

Security Automation Tool (Individual Project)

- Developed a Python SOAR utility to enrich IOC indicators via public APIs and generate triage reports.
- Automated noisy alert filtering and produced CSV/JSON summaries to speed SOC investigation workflows.

Burglar Alarm System with Facial Recognition (Project Lead)

- Directed a team of 4 students through a full project cycle, managing technical deliverables and timelines.
- Implemented a burglar alarm system using low embedded devices, programmed the functionality using C, and integrated facial recognition using MATLAB.

Predicting Household Energy Consumption (Academic Research)

- Developed predictive models for household energy demand to support UK's transition to renewable wind energy, processing 50,392 data entries across 30 variables with comprehensive data preprocessing.
- Built and optimized linear regression and artificial neural network models achieving 99.3% R^2 accuracy, applying advanced statistical techniques to address multicollinearity issues.
- Delivered technical documentation and production-ready MATLAB code meeting client specifications for national grid energy forecasting.

Bachelor's Degree Dissertation - Application of Statistical Analysis Methods to Assess Changes in Traffic Flow, Pollution Levels, and Peak Commuting Times in Sheffield (Pre- and Post-COVID-19)

- Analysed traffic and air-quality datasets (2019 vs 2023) using statistical modelling, hypothesis testing, and regression analysis.
- Identified regional variations in traffic flow and shifts in commuting peak times following the pandemic.
- Evaluated NO_2, $PM_{2.5}$, and PM_{10} pollution trends, finding substantial NO_2 reductions but limited correlation with traffic volume changes.
- Produced insights to support urban planning and environmental policy decisions.

Reinforcement Learning Project (Academic Research)

- Implemented and compared Q-learning and SARSA algorithms to train an autonomous agent in different grid environments with deterministic, stochastic, and multi-target reward systems.
- Designed and tuned hyperparameters (learning rate, discount factor, exploration rate) to analyse algorithm performance across 5000+ episodes.
- Demonstrated the trade-offs between on-policy and off-policy learning, achieving optimized navigation strategies and improved convergence using policies such as epsilon-greedy and Softmax.

EDUCATION

Master of Science (MSc), Cyber Security *2025 - Present*

Liverpool John Moores University – Oryx University | Qatar

- **Relevant modules include:** Computer Security, Network Security, Information Security Management, Ethical Hacking, Secure Systems

Bachelor of Engineering (BEng), Computer Systems Engineering *2021 - 2024*

The University of Sheffield | United Kingdom | First Class Honours (GPA: 4.0)

- **Relevant modules include:** Introduction to Electric & Electronic Circuits, Digital Signal Processing, Mechatronics, Introduction to Systems Engineering & Software, Systems Engineering and Object-Oriented Programming, Computer Problem Solving and Object-Oriented Design, Systems Design and Security, Machine Learning, Computer Security and Forensics, Reinforcement Learning.

SKILLS

- **Programming Languages:** Python, Java, C, MATLAB, SQL
- **Cybersecurity Tools:** Wireshark, Splunk
- **Frameworks:** NIST SP 800-30
- **Microsoft Tools:** Word, Excel, PowerPoint, SQL Server
- **Version Control:** Git
- **AI Tools:** ChatGPT, Claude, Microsoft Copilot
- **Core Skills:** Analytical | Problem-Solving | Project Leadership | Cross-functional Collaboration | Adaptability | Communication
- **Languages:** English (Fluent), Arabic (Native)

CERTIFICATIONS

- **CompTIA: Security+ (in-progress), Network+ (in-progress)**
- **IBM: Introduction to AI (Honours) | Generative AI: Prompt Engineering Basics | Introduction to Software Engineering (Honours)**
- **HackerRank: Java (Basic) | Python (Basic)**