

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.

Academic Projects

Shopping System (System Developer)

- Developed an online shopping system for a railway models store using Java and MySQL.
- Designed and visualized system architecture using UML diagrams including class, state, and activity diagrams for comprehensive system modeling.

Mechatronic System (Project Lead)

- Led a multidisciplinary team in an end-to-end project delivery using a systematic project management approach.
- Coordinated integration of multiple technologies (C programming, CAD design, sensor systems).
- Successfully navigated complex technical requirements and delivered a functional mechatronic system.

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 using Machine Learning Techniques (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.

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 analyze 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

Liverpool John Moores University – Oryx University | Qatar

2025 - Present

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

Bachelor of Engineering (BEng), Computer Systems Engineering

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

2021 - 2024

- **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
- **Microsoft Tools:** Word, Excel, Powerpoint, SQL Server
- **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 HTML, CSS, & JavaScript | Introduction to AI (Honours) | Generative AI: Prompt Engineering Basics | Introduction to Software Engineering (Honours)**
- **HackerRank: Java (Basic) | Python (Basic)**
- **TryHackMe: Pre Security**