Zaid Daghash

✉ zaiddaghash@gmail.com 📱 +974 50252706 in LinkedIn 🌐 Portfolio **D.O.B**: 12/01/2002 **Nationality**: Jordanian | Born: Qatar

PROFESSIONAL SUMMARY

Computer Systems Engineering graduate with First Class Honours 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 long-term 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   *2025 - Present*

Liverpool John Moores 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*

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

• **Relevant modules include:** Introduction to Electric & Electronic Circuits, Digital Signal Processing, Mechatronics, Introduction to Systems Engineering & Software, Mechatronics, 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
- **Tools:** VSCode, GitHub, GitLab, IntelliJ IDEA, Spyder, NetBeans, Code::Blocks, Microsoft SQL Server
- **Microsoft Tools:** Word, Excel, Powerpoint, SQL Server
- **AI Tools:** ChatGPT, Claude, Github Copilot, Microsoft Copilot
- **Core Skills:** Analytical | Problem-Solving | Project Leadership | Cross-functional Collaboration | Adaptability | Bilingual: English (Fluent), Arabic (Native)

CERTIFICATIONS

- **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**