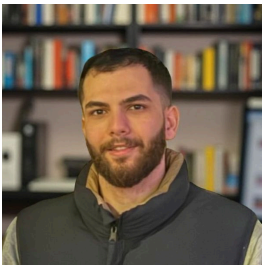# Mohammed Al-Qaderi

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📞 +968 9191 8769

📍 Oman, Muscat

🪪 SUMMARY

Enthusiastic Computer Science graduate eager to apply and expand knowledge in the fields of artificial intelligence and modeling. Passionate about continuous learning and contributing to innovative projects.

🎓 EDUCATION

2019 – 2024 Muscat	**Bachelor: Computer Science** Coventry University (programme delivered at Middle East College, Muscat, Oman) Semester Fall 2019 to Semester Fall 2024 Graduated in March 2024 Bachelor's degree with 3.75 GPA

💼 EXPERIENCE

10/2024 – Present Muscat, Oman	**German University of Technology (GUtech)** Project: Automated Detection and Counting of Oryx Species in a Natural Reserve Using Airborne Camera Imagery - Contributed to an aerial-imagery study automating species counts in the Oryx Natural Reserve, gaining hands-on experience in AI methodologies, computer vision, deep learning, and probabilistic modeling.
05/2025 – 08/2025 Muscat, Oman	**Professional Service Center** Freelance Software Developer (desktop application) - Designed and delivered a desktop application to **Professional** (service center) to track and monitor employee efficiency. - Implemented core functionality using **Python** and **SQL** for data storage, querying and reporting. - Built modules for performance tracking, real-time monitoring/dashboard, user management and data export. - Managed the full project lifecycle: requirements gathering, design, implementation, testing, deployment, client training and handover; provided post-delivery support and minor updates.
03/2024 – 04/2024 Muscat, Oman	**Artificial Horizon** Radar Data Integration Engineer - Configured data communication between the **air radar system** and the application interface. - Enabled the application to **receive, process, and display real-time radar readings** on the user interface. - Integrated data exchange and ensured accurate synchronization between radar outputs and the UI display. - The application was **developed and tested using a radar simulator** to validate system performance.

10/2023 – 01/2024	**Middle East College**
Muscat, Oman	Research Project — Probabilistic Fault Diagnostics (Project Lead)

- Developed a **Bayesian probabilistic model** for diagnosing vehicle/industrial system faults.
- Implemented a **web-based diagnostic tool** to compute and visualize fault posteriors using Bayesian networks and Bernoulli evidence models.
- Accepted by **Microsoft Research** and presented at the **2nd National Student Research Conference**.

📖 PUBLICATIONS

M. Alqaderi, S. Khanjari, N. Sahli, 'A Hybrid Probabilistic Framework for Robust Object Detection under Limited Training Data'.

2024 **M. Alqaderi, C. Jayakumari, 'Probabilistic Model for Developing Predictive Diagnostics for Industrial Systems', 2024, 2nd National Student Conference, Muscat College.**

💮 SKILLS

- Programming (Python, Java)

- Probabilistic Modeling, Bayesian Framework, Frequencies Statistics.

- Neural Networks, Decision Trees

- Data analysis, and Database management

- Academic Research and Writing skills

🌐 LANGUAGES

English
IELTS B2

Arabic
Native language

📚 CERTIFIED COURSES

08/2025	**Control Systems Analysis: Modeling of Dynamic Systems**
	University of Colorado Boulder

01/2024	**Probabilistic Graphical Models 1: Representation**
	Stanford University

05/2023	**Academic Information Seeking**
	University of Copenhagen

12/2022	**PHP for Beginners**
	Great Learning Academy

11/2022	**Deep Learning with TensorFlow**
	IBM Developer Skills Network

08/2021   **Introduction to Cyber Attacks**
               TYU Tandon School of Engineering

♂ INTERESTS

Music
Play four musical instruments; **1st place winner** in *MEC Got Talent*.

Basketball
Achieved **three medals** in basketball at competitive events.