

Omar Al Madani

AI & BACKEND ENGINEER

Summary

AI-focused Data Science student with strong skills in Python, deep learning, and databases. Experienced in building real systems, training and deploying ML models, and solving complex problems with efficient, reliable solutions across data pipelines and applied AI workflows.

Education

2023 – Present

Al Hussein Technical University (HTU)
Bachelor of Science in AI and Data Science

GPA: 3.87

Received a scholarship to study at AlHussein Technical University.

2018 – 2022

Eureka Tech Academy
Engineering and IT Diploma

Studied robotics (EV3, Arduino), electronics, and IoT, gaining strong hands-on technical skills, with foundational knowledge in electrical and renewable energy engineering, plus experience in game development, web development, and entrepreneurship.

Achievements

Dec 2025

Orange Digital Center Challenge 2025 - First Place

Achieved 1st place in Jordan (Orange Digital Center Challenge 2025) by developing an optimized solution to the event's competitive-programming problem.

Nov 2025

Nova Brainlytics Data Analysis Challenge - Third Place

Tackled data cleaning and analysis, and built a full Power BI dashboard that transformed raw data into clear, actionable insights.

Sep 2025

Simera MENA AI Challenge 2025 - Fourth Place

Our project was a multi-agent system that builds personalized learning roadmaps from a user's background and goals.

Experience

Oct 2025 – Present

Autonomous Systems Engineer – HTU Racing

Leading perception, planning, and backend development; integrating sensors and AI models to support the Formula Student autonomous vehicle.

	Oct 2025 – Dec 2025	AI Engineer Intern – Mergeflo Designed optimized multi-agent workflows, integrated LLM agents, reduced redundant calls, and built scalable prompts, templates, and monitoring tools.
	Oct 2024 – Sep 2025	Technical Consultant – GDG on Campus HTU Led AI workshops, mentored students, created practical resources, and helped apply AI concepts to real projects.
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Courses and Certifications	Sep 2025	Computer Vision Masterclass – Udemy Gained hands-on experience in computer vision, including image processing, deep learning models, and transfer learning for real-world vision tasks.
	Apr 2025	Convolutional Neural Networks in TensorFlow - Coursera Learned to build, train, and optimize CNNs using TensorFlow, focusing on image classification and deep learning workflows.
	Mar 2025	Introduction to TensorFlow for AI, ML, and Deep Learning - Coursera Covered the fundamentals of TensorFlow, building simple neural networks, and applying them to basic machine learning and computer vision tasks.
Projects	2025	Brain Tumor Detection Model A deep learning model (U-Net) that segments tumor regions in MRI brain scans using medical imaging datasets for accurate pixel-level detection.
	2025	Hand Gesture Volume Control An interactive computer vision app that tracks hand gestures to control system volume in real time.
	2025	Soura-Seek An AI-driven image library that stores and retrieves photos using natural-language search based on image content.
Languages	Arabic	Native Language
	English	Proficient
Skills	AI & ML	PyTorch, Scikit-Learn, Numpy, HuggingFace Transformers
	Backend	Python, FastAPI, REST APIs
	Databases	SQL, MongoDB
	Dev Tools	Git/GitHub, Jupyter, Linux