Omar Abu Abbass

Junior Developer & IoT Specialist

B.Sc. in Internet of Things Sciences (Ongoing)

Jadara University, Irbid, Jordan

2023 – Present | Estimated Grade: 75% (Good)

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Languages: Arabic (Native), English (Professional)

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Professional Summary

Fourth-year Internet of Things (IoT) student with hands-on experience in building end-to-end smart systems. Proficient in integrating embedded hardware (ESP32, Arduino) with Cloud platforms and Mobile Applications (Flutter). Skilled in Machine Learning pipelines and robotics prototyping, with a strong focus on delivering scalable, real-world IoT solutions.

Skills

Technical:

Programming: Python, C, C++, Java, Dart & Flutter, SQL

IoT & Embedded Systems: ESP32, Arduino, MQTT/HTTP Protocols, Sensor Integration, Circuit Prototyping

Machine Learning & AI: Regression (Lasso/Ridge), Deep Learning (MLP), TensorFlow, Keras, Scikit-learn, Pandas, NumPy, Data Visualization (Matplotlib/Seaborn).

Robotics & Control: Obstacle Avoidance, Environmental Monitoring

Backend & Web Technologies: REST APIs (Python), SQL/MySQL, HTML, CSS, JavaScript

Tools & Platforms: Google Colab, VS Code, Arduino IDE, Git, GitHub

Soft:

Problem-Solving & Analytical Thinking

Scientific Research

Teamwork & Collaboration

Adaptability & Fast Learning

Time Management

Technical Documentation & Reporting

Projects

2025-2026

ARGUS (G-Sentinel) – Smart IoT Gas Detection System **(Completed)**

Developed a robust IoT safety system using ESP32 & MQ-6 sensor for real-time gas monitoring. Integrated Cloud backend and Mobile App for push notifications via MQTT, featuring multi-layer testing and fail-safe logic.

2025-Present

DPP.Dx44 – Interpretability-Focused Price Predictor **(Research Project)**

Developed a specialized model using Lasso Regression to isolate structural value from market noise. Successfully handled multicollinearity in a 500-unit dataset, demonstrating superior feature selection and interpretability compared to standard linear models

2025-Present

Road to 2026 – Smart Football Simulation **(In Progress)**

Developing an AI-driven simulation of Jordan's national team for World Cup 2026. Combines Google Colab ML models with Arduino-based interactive modules.

2024-2025

AEGIS – Arduino-Based Gas Safety System **(Completed)**

Engineered an embedded safety system based on the Robotic Perception-Cognition-Action cycle. Integrated MQ-6 sensor with multimodal alerts (LCD, LED Matrix, Buzzer) to translate raw environmental data into real-time safety decisions using Arduino.