

# Orjuwan Almotarafi

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Aspiring AI & Robotics Engineer in 2nd year of Computer Science and Artificial Intelligence at QMUL. Passionate about building intelligent systems and using technology to solve real-world problems.

## EDUCATION

### Queen Mary University of London

September 2023 – June 2026

BSc Computer Science and Artificial Intelligence(Hons):

- **On track for 1<sup>st</sup>-Class (73% achieved in 1st year):** Relevant Modules: Generative Deep Learning, Introduction to Artificial Intelligence, Introduction to Robotics, Probability and Matrices, Algorithms and Data Structures, Object-Oriented Programming, Fundamentals of Web Technology, Automata and Formal Language

## PROJECTS & SKILLS

### AI Air Quality Forecasting System – Python | TensorFlow | Scikit-learn | Pandas | OpenWeatherMap API | OpenAQ API

- Developed an AI pipeline to forecast AQI using historical data and trained an LSTM model for time series prediction
- Performed data cleaning, handling missing values, and feature engineering (lag features, moving averages)

### 2D Hours Race Game – Java | OOP | GUI (Java Swing)

- Created a time-based racing game involving player logic, GUI components, and object-oriented patterns.

### Personal Portfolio Website – HTML | CSS | JavaScript

- Designed and developed a responsive one-page website to showcase academic work and projects.

### Interactive Hangman Game – Python | Tkinter | Pandas | CSV

- Developed a GUI-based Hangman game using Tkinter with user authentication, score tracking, and dynamic word generation.

### Smart Car with Obstacle Avoidance – C++ | Arduino | Ultrasonic Sensors

- Assembled and programmed an autonomous smart car capable of detecting and avoiding obstacles using real-time sensor input.

### Languages and Technologies:

Python | Java | JavaScript | C++ | HTML | CSS | SQL | TensorFlow | Scikit-learn | Git | Java Swing | Pandas | Linux | Flask | Arduino | Fast API | Ultrasonic Sensors

## WORK EXPERIENCE

### Event Organiser – Saudi Orchestra, London

September 2024

- Supported event setup and guest coordination during the Saudi Orchestra concert
- Worked in a fast-paced team to ensure smooth logistics, timing, and guest support under pressure

## EXTRACURRICULAR ACTIVITIES

- **Volunteered** in organising the Saudi National Day celebration at the Saudi Embassy in London.
- Member of the **Coding Club** at Kaplan International College, participated in peer coding sessions and technical discussions
- Active member of **Queen Mary Machine Learning Society**, attending talks, workshops, and collaborative AI projects

## Interests and Languages

**Interests:** Passionate about applying AI and data science in healthcare to improve outcomes through research-driven solutions. Seeking hands-on experience in clinical trials, statistics, and data systems.

**Languages:** Arabic (native), English (fluent)