

EMAD NAZZAL

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ABOUT ME

Junior Full-Stack Engineer with 3 years of educational and freelance experience in web applications and full-stack solutions. Skilled in Python, Flask, React.js, Django, and database technologies. Experienced in implementing machine learning models and data visualization. Detail-oriented with strong analytical skills in data science applications. Particularly passionate about MERN stack development. Authorized to work in Ireland. Seeking to contribute technical expertise to impactful projects in data science, machine learning, and software development.

LANGUAGES & TECHNOLOGIES

Programming Languages

- Python
- JavaScript
- Java
- HTML/CSS

Frameworks & Libraries

- React.js
- Flask
- Django
- Node.js
- Express
- Bootstrap

Databases

- MongoDB
- Mongoose
- PostgreSQL
- MySQL

Tools & Technologies

- Git
- AWS
- RESTful APIs
- MVC Architecture
- Data Visualization
- Machine Learning
- TensorFlow
- scikit-learn
- Pandas
- NumPy
- HubSpot CRM

Soft Skills

- Attention to Detail
- Time Management
- Leadership
- Teamwork
- Public Speaking
- Agile Methodologies

Languages

- English (Native)
- Arabic (Native)
- Turkish (Highly Proficient)
- Hebrew (Novice)

PROFESSIONAL EXPERIENCE

Full-Stack Developer - Nibbler Project

Dublin, Ireland

May 2024 - August 2024

- Built restaurant discovery platform using React.js frontend and Django REST Framework backend.
- Designed PostgreSQL database schema optimized for efficient data retrieval and analysis.
- Implemented sentiment analysis and machine learning models for personalized recommendations.

Full-Stack Developer - Dublin Bike (YourBike)

Dublin, Ireland

February 2024 - May 2024

- Developed Flask-based web application with RESTful API endpoints for bike station data management.

- Implemented machine learning model using scikit-learn and pandas for bike availability prediction.
- Created interactive data visualizations using JavaScript libraries for real-time insights.

Data Analyst - CDC COVID-19 Analysis

Dublin, Ireland

February 2024 - May 2024

- Performed data preprocessing and cleaning on 100 million-row COVID-19 dataset.
- Applied CRISP-DM methodology and developed machine learning models to predict outcomes.
- Created data visualizations using Python libraries to communicate insights effectively.

Database Developer - Company Internal DB

Dublin, Ireland

August 2023 - October 2023

- Designed and optimized MySQL and PostgreSQL database schemas for hiring processes.
- Created efficient SQL queries for data retrieval, reporting, and analytics.

Junior Full-Stack Engineer - Freelance

Remote

February 2021 - September 2022

- Developed responsive web applications with JavaScript, HTML/CSS, and modern frameworks.
- Built interactive data-driven interfaces for improved user experience.

EDUCATION

MSc Computer Science

University College Dublin, Dublin

December 2024

Mechatronics Engineering

Eastern Mediterranean University, Famagusta

February 2021

Relevant Courses

- C++ (Udemy, Tim Buchalka - Current)
- Python (Udemy, Feb 2021 - May 2024)
- Data Analytics (UCD, Feb 2024 - May 2024)
- ReactJS (Udemy, Jan 2022 - Dec 2022)
- Java 17 and SQL (Udemy, Sep 2023 - Dec 2024)
- MERN Stack (Udemy, Feb 2022 - Jul 2023)
- AWS Solution Architect Associate (Udemy, Jun 2022 - May 2023)
- Distributed Systems with Java (UCD, Sep 2024 - Dec 2024)
- OOP in Python and Java (UCD, Sep 2023 - Dec 2024)
- Information Security (UCD, Sep 2024 - Dec 2024)
- Cloud Computing (UCD, Sep 2024 - Dec 2024)
- Web Scraping with Python (Jun 2022 - Dec 2023)
- Flask and Django (Feb 2024 - Sep 2024)

INTERESTS

Passionate about emerging technologies including Machine Learning, AI, Blockchain, Docker, AWS, Kubernetes, React.js, and Network Security. Actively pursuing these interests through personal projects and continuous learning to stay current with industry trends.