Mohamad Arouni

1st year student studying Computer science at Queen Mary University of London.

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EDUCATION

Lycée International de Londres Winston Churchill -- *French Baccalaureate (09/2017 - 06/2024)*

- Maths: 20/20, Computer Science: 18/20, Physics & Chemistry: 17/20
- Overall Average: 18/20, Awarded highest honours with Committee Praise (Equivalent to A*A*A*)

Projects

Flask application: Data analysis tools for small Jewerelly Businesses *(December 2024– Present)*

- Engineered a secure and modular Flask-based web application with structured backend logic, secure login authentication systems and Jinja2 for dynamic frontend rendering.
- Automated data collection, cleaning, and processing using Pandas and Google App Script (using JavaScript functions to clean the database in google sheets, ensuring real-time data updates and structured analytics.
- Designed an intuitive and responsive user interface with HTML5, CSS3, and JavaScript, enhancing accessibility and usability while continuously upgrading features and security measures.

Open-Source Tetris Game Enhancement *(December 2024)*

- Transformed a basic Tetris implementation by introducing a feature-rich menu system and creating basic game functionalities. Enhanced the overall gameplay experience and improved usability by refining the interface and upgrading visuals.
- Modularized code with Object-Oriented Programming principles, creating a scalable and maintainable architecture.

SKILLS

Programming Languages: Python, SQL, HTML5, CSS3, JavaScript, Java

Full stack Development: Creating interactive websites, integrating frontend and backend, implementing secure login systems, and analysing server logs.

Data Analysis & Visualization: Experienced in data manipulation, cleaning, and visualization using Pandas and Matplotlib. Proficient in writing SQL queries for data extraction and analysis. Developed customized reports and visualizations for business insights.

Machine Learning: Basic understanding of machine learning concepts and exposure to predictive modelling techniques for data-driven decision-making.

Communication & Collaboration: Excellent verbal communication and presentation skills, with experience delivering concise findings and confidently collaborating on projects.

Problem-Solving & Research: Strong analytical skills in transforming business challenges into technical solutions, starting with a sales analysis tool for my family's business and expanding it into a suite of tools for jewelry businesses.

Libraries & Frameworks used

Pandas & Matplotlib: Utilized for importing, cleaning, and manipulating CSV data, filtering datasets, grouping data, and generating customized reports. Designed graphs to track growth in expenses, spending, loans, and product evolution based on quantity growth and price changes.

Scikit-learn: Used for machine learning tasks, including data preprocessing, model selection, training, and evaluation to build predictive models and analyze data for business insights.

Cloud & Deployment: Experience with cloud-based hosting (Ngrok, Render) for remote access and testing.

Flask Framework & Jinja2: Built a dynamic, data-driven web application used for data analysis, handling HTTP requests, rendering templates, and integrating databases. Implemented dynamic content rendering within Flask templates for an interactive user experience.

PyGame: Contributed to game development by adding features to simple versions of games like Tetris.

SQL: Designed and optimized relational databases for structured data storage, retrieval, and efficient querying

CERTIFICATIONS

Introduction to Web Development with HTML5, CSS3, and JavaScript (EDX)
AI for Everyone: Master the Basics (EDX)
Analysing Data Using Python (EDX)

LANGUAGES

Fluent in: English, French, Arabic
Proficient in: Spanish (B2)