Mohamad Arouni

1st year student studying Computer science at Queen Mary University of London. Enthusiastic and keen about expanding my knowledge in the field of computing and technology.

CONTACT

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CERTIFICATIONS

Introduction to Web Development with development with HTML5, CSS3 and JavaScript course from EDX.

Ai for Everyone, master the basics course from EDX.

Analyzing data using python course from EDX.

PROGRAMMING TOOLS USED

Flask Framework: Built dynamic, data-driven web applications using Flask, working with routing, handling HTTP requests, rendering templates, and integrating databases

Pandas: Utilized for collecting and processing data from CSV files, enabling efficient data manipulation.

Matplotlib: Designed graphs to track growth in expenses, spending, loans, and product evolution based on quantity growth and price changes.

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

Scikit-Learn: Developed predictive models for sales based on a jewellery business database, assisting in forecasting product performance.

LANGUAGES

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

EDUCATION

Lycée International de Londres Winston Churchill
French Baccalaureate 09/2017 - 06/2024 **:**
Maths, Physics & Chemistry, Computer Science

Final grades: Maths: 20, Computer science: 20, Further Maths: 20

Overall Average: 18/20, Awarded highest

SKILLS

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

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

Data Analysis: Data manipulation and visualization using Pandas, customized Google Sheets databases, and prediction modelling.

Game Development: Feature enhancement and performance optimization of games.

Software Design: Object-Oriented Programming for modular and maintainable code.

PROJECTS

Data Analysis for Family jewellery (Sarasbeads)

Tools and Technologies: Python, Pandas, Flask, HTML, CSS, JavaScript, AppScript, Google Forms, Ngrok

Built a scalable web application to analyse and visualize sales data by combining backend logic in Python with dynamic frontend design using HTML/CSS/JavaScript.

Developed interactive web pages for seamless navigation and user-program interaction, leveraging Flask for efficient data manipulation and presentation.

Automated database updates through Google Forms and customized Google Sheets behaviour with AppScript extensions coded in JavaScript.

Engineered secure login systems to protect confidential data and implemented customized demonstrator modes to control access during presentations.

Published the application using Ngrok, ensuring secure public access while maintaining robust user authentication.

Open-Source Tetris Game Enhancement

Transformed a basic Tetris implementation by introducing a feature-rich menu system and an intuitive pause/resume functionality.

Enhanced the overall gameplay experience and Improved usability and user engagement by refining the interface and upgrading visuals

Modularized code with Object-Oriented Programming principles, creating scalable and maintainable architecture.

honors with Committee Praise