

Saadallah Itani

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Education

American University of Beirut

B.E. Computer Science Engineering

Expected May 2025

Beirut, Lebanon

- **Relevant Coursework:** Data Structures and Algorithms (C++), Object Oriented Programming (Java), Probability and Statistics & Inferential Statistics, Machine Learning (Python), & Operating Systems (C++).

Hariri High School II

Lebanese Baccalaureate (General Sciences)

2006 – 2021

Beirut, Lebanon

- Graduated with 'Very Good' distinction
- Volunteered in the school's community service club.

Experience

All Girls Code

Digital Advocacy Team Member - Volunteer

March 2023 – Present

Beirut, Lebanon

- Took the lead in crafting and delivering a presentation on AI ethics at Techsplore, highlighting the ethical implications of AI in the society and workforce.
- Contributed to the All Girls Code newsletter on empowering young women to excel in the tech industry amid the evolving landscape of AI.

AUB Commencement 2022

Usher - Volunteer

August 2022

Beirut, Lebanon

- Assisted with the organization of the graduation ceremony, and provided information to ensure a seamless ceremony experience.

Projects

Multimodal Spam Analysis | Python, Jupyter Notebook, Scikit Learn, Keras, Pandas

- Developed and compared multiple machine learning models (ANN, SVM, KNN, logistic regression) to identify spam emails, relying on metrics like accuracy, F1-score, precision, and recall to compare the effectiveness of different models.
- To improve input quality, extensive data preprocessing was performed including TF-IDF vectorization, normalization, and text cleaning
- Python, Scikit-Learn, Pandas, Matplotlib, Keras were used for model development, optimization and visualization, obtaining optimal parameter tuning using grid search method

Chat Room Application | Python, Flask, Flask Socket.IO, JavaScript, HTML, CSS

- Implemented a client-server chat room application for a university project in the Operating Systems course, illustrating the practical use of IPC mechanisms through socket programming with Python, Flask, and Socket.IO.
- Integrated features like random username generation combining predefined names with character traits and numbers, a dynamic user list broadcast, and an intuitive graphical user interface for enhanced user interaction.
- Developed using Flask and Flask-SocketIO for server-side operations, with front-end interactions managed through dynamic JavaScript to maintain up-to-date user states and message broadcasting.

Hotel Reservation System | Python, Flask, HTML, CSS

- Developed a hotel reservation system front-end Desk activities.
- Implemented the sign-up, login, and logout pages using python for the back-end and HTML and CSS for the front-end.
- Stored user data in a MySQL database server.

Technical Skills

Languages: Python, C++, HTML, CSS, Java, JavaScript

Technologies: Flask, Flask Socket.IO, Pandas, Scikit-learn, Matplotlib, Numpy

Concepts: Compiler, Operating System, Virtual Memory, Cache Memory, Encryption, Decryption, Artificial Intelligence, Machine Learning, Neural Networks, API, Database Normalization, Agile Methodology, Cloud Computing