

Mohamad Faour

Bachelor of Engineering in Computer and Communications Engineering

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EDUCATION

American University of Beirut (AUB)

Beirut, Lebanon
Aug. 2021 – May 2025

- Bachelor of Engineering in Computer and Communications Engineering
- **Relevant coursework:** Introduction to Computational Problem-Solving, Data Structures and Algorithms, Design and Analysis of Algorithms, Introduction to Machine Learning, Database Systems (Ongoing)

WORK EXPERIENCE

- **Math and Physics Tutor, MMKN Organization:**

Beirut, Lebanon
May 2022 - July 2023

- 1- Delivered and coordinated 40 + tutoring sessions in Mathematics, Physics, Biology and Chemistry to high school students.
- 2- Adapted the teaching strategies using multimedia to meet the various needs of students.

- **Freelance Education Content Creation:**

Beirut, Lebanon
Feb 2024 – June 2024

- 1- Created educational content for 4th Grade Mathematics – Jordan curriculum- students. This included lesson plans, instructional materials and exercises.
- 2- Developed student and teacher guides to ensure effective content delivery.

PROJECTS

- **EECE 350 Project: Implementing a Multiplayer Game with GUI.**

Developed a multiplayer game with GUI using Python, HTML, CSS, and JavaScript to implement key communication principles from the communications course EECE 350.

- Implemented TCP/UDP communications to send and receive messages in real-time.
- A server sends messages to players (numbers).
- Players are required to reply as soon as possible. The player with the faster reply to wins.
- The game is played in 3 rounds.

- **EECE 455 Project: Implementing an RSA Public/Private Key Encryption Model**
 - Implemented an RSA Public/ Private key encryption decryption website using python, HTML, CSS, JAVASCRIPT enabling processing data through dynamic encryption/decryption.
 - Developed the application by incorporating ASCII and hexadecimal conversions, and encryption/decryption processes based on public and private keys generated through the Miller-Rabin primality test.
- **EECE 439 Project: Recommendation System (Django + Azure)**
 - Built and deployed a cloud-based recommendation system that provides real-time professional suggestions based on user queries,
- **EECE 435 Project: Quantum Reinforcement Learning Research**
 - Authored a comparative study on quantum-enhanced RL, to showcase how Variational Quantum Circuits (VQCs) can may exceed classical methods in performance and time complexity in stochastic and deterministic simplistic environments.
- **EECE 425 Project: IoT Microcontroller for Motion Analytics**
 - Programmed a microcontroller to capture accelerometer data, trigger directional LEDs and manage historical data movement on a dedicated server.
 - Created a server that provides real-time analytics and trend insights from the centralized database.
- **Community Service Project (CSP) : Theatre-Based Awareness Campaign Against Celebratory Shooting.**
 - Participated in an Awareness campaign dedicated to raise awareness against the harmful cultural practices in my local community, specifically, celebratory shooting.
 - Trained middle school students in rehearsals to participate in the final play, in front of peer students and their families.
 - Delivered an influential final play, aiming to make a change in the perception of young minds to the harmful cultural practice of celebratory shooting and stray bullets.

AWARDS AND ACHIEVEMENTS

- Awarded Qatar Scholarship in collaboration with Education above all program at The American University of Beirut (2022)
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- Awarded a full scholarship from the United States Agency for International Development (USAID) to study Computer and Communications Engineering at the American University of Beirut (2021).
- Achieving Very High Distinction in the Lebanese Baccalaureate Official Exams, achieving the 11th place on Lebanon.
- Presented our CSP on AUBTalks Panel.

TECHNICAL SKILLS AND CORE QUALIFICATIONS

Programming Languages: Two years of experience in python, C++.

Software and Data Engineering: JavaScript, HTML, CSS, Bootstrap, React, Django, Version Control (Git and GitHub) Machine Learning using Sklearn and PyTorch, Feature Engineering using Numpy and Pandas, Natural Language Processing using APIs, RAG (Retrieval-Augmented Generation).

Earned a Full web development bootcamp certificate (Zero to Hero), demonstrating in front-end and back-end development.

Languages:

Arabic: Native Proficiency

English: Bilingual Full Proficiency