

## Education

---

Saint George School, Bachelor in General Sciences	2020
Lebanese American University, BS Computer Science	2021-2024
Honors Program Senior Student, CGPA: 3.91   Freshmen Sciences, CGPA: 4	

## Experience

---

Softech   Data Engineer	2024 Feb-Dec
<ul style="list-style-type: none"><li>Python automation scripts for data loading into SQL and Apache Solr   Python Pandas for data analysis and manipulation   Complex Queries on MSSQL</li></ul>	
Malia Group   Database Management Visualization, Intern	2023 Jun-Aug
<ul style="list-style-type: none"><li>Transformed SQL data into interactive dashboards using QlikSense   Procedures on PL/SQL</li></ul>	
IDS   Full Stack Web Development, Intern	2023 Apr-May
<ul style="list-style-type: none"><li>Used HTML, CSS, JavaScript, PHP, and SQL for developing a complete website</li></ul>	
Research Assistant   LAU Computer Science Department	2023
<ul style="list-style-type: none"><li>Designed and implemented genetic algorithms to improve data collection efficiency from IOTs</li></ul>	
LAU   Tutoring	2023
<ul style="list-style-type: none"><li>Responsible for tutoring Theory of Computation and Calculus at LAU.</li></ul>	

## Projects

### Mobile Applications:

- LAU GYM: developed using java and android studio to help students manage their gym activities.
- LAU Hiking: developed using flutter and firebase to manage hiking activities for the hiking club

### Cloud:

- Hosted a website on elastic bean stalk and managed EC2, VPC, and subnet instances on AWS

### Research: Vol-Aware Energy-Efficient UAV-Assisted Data Collection Using Genetic Algorithms

- Published a paper on minimizing the energy and the number of UAVs while increasing the value of information and IOTs covered using genetic algorithms. Submitted to WCNC 2024

### Machine Learning:

- Predicted stroke risk by implementing and comparing multiple machine learning models.

### Deep Machine Learning:

- Developed a face recognition app using advanced deep learning techniques.

### Capstone Project (Lebanon Aid) :

- Designed a web-based crisis-assistance platform using Next.js, integrating chatbot APIs, QR systems for equitable resource distribution, Google Maps for food supply tracking, and an admin panel for resource and red zone management for refugees during the war.

## Technologies

---

**Languages:** java, python, c, bash, php, javascript, HTML, CSS

**Frameworks:** flutter, flask, android studio, AWS, Next.js

**Database:** Apache Solr, MSSQL, Firebase, SQL Lite

**Data Science and Machine Learning:** scikit-learn (sklearn), pandas, tensorflow