

**Education**

- MEPI Student Leaders Program | **Georgetown University** **Washington, D.C. - USA**  
- Leadership and Project Management Training June 2024 - July 2024
- BS in Computer Science | **Lebanese American University** **Beirut, Lebanon**  
- Awarded degree with Distinction August 2021 - June 2024  
- Recipient of the full-merit USAID Higher Education Scholarship
- Lebanese Baccalaureate | **Shhim Public High School** **Shhim, Lebanon**  
- General Sciences: 18.22/20 October 2018 - June 2021

**Professional Experience****Technical Business Analyst - Maids.cc** **July 2024 - November 2024**

- Led chat and data analysis for developing a chatbot using Python for NLP sentiment and intent analysis and Tableau for data visualizations.
- Developed pseudocode focusing on improving conversational flow and intent recognition for a chatbot.
- Documented technical specifications and flowcharts to communicate requirements and project scope.
- Co-designed UI/UX for the mobile app update focusing on performance and user experience.
- Conducted functional, performance, black box testing, and bug detection on the mobile application.
- Leveraged Agile development using Jira to plan, track, and manage tasks and projects.

**Full-Stack Developer - Integrated Digital Systems** **November 2023 - January 2024**

- Created a dynamic web application using HTML, CSS, JS, and PHP, following the MVC pattern.
- Crafted a MySQL database focusing on CRUD operations and data model optimization.
- Utilized PHP-OOP principles including inheritance, encapsulation, abstraction, and polymorphism.

**Software Engineer - SAUGO 360** **May 2023 - August 2023**

- Developed a dynamic testing component to streamline and accelerate the microservices testing process.
- Implemented using Python Tornado including integration with Elasticsearch database, RabbitMQ, Docker containers, and RESTful APIs for system component optimization validated using Postman.
- Conducted unit, functional, integration, regression, and performance testing.
- Integrated the testing component with a controller to validate operations, including message handling, HTTP requests, and validation of the Elasticsearch database.
- Automated testing by designing YAML test case files and defining test steps using JSON objects.
- Produced detailed technical documentation and user guides for the component.

**Skills and Technologies**

- |                |                         |                                  |                  |            |
|----------------|-------------------------|----------------------------------|------------------|------------|
| • Java and OOP | • JavaScript            | • Model Evaluation               | • Postman        | • Firebase |
| • C            | • Python/Python Tornado | • Data structures and algorithms | • RESTful APIs   | • SQL      |
| • C#           | • PHP                   | • Relational database design     | • Flutter (Dart) | • Docker   |
| • HTML/CSS     | • React Native          | • Jira                           | • Elasticsearch  | • RabbitMQ |

**Projects****CSC599 Capstone Project: PHILANTHROPY MOBILE APPLICATION** **Spring 2024**

- Developed a philanthropy mobile application using Flutter, implemented using Dart
- Utilized Firebase Authentication, Firebase Storage, and Cloud Firestore for data management operations

**CSC461 Introduction to Machine Learning: OBESITY RISK PREDICTION** **Fall 2023**

- Collected, randomized, cleaned, visualized, and split a dataset for obesity risk
- Trained the dataset using Random Forest, XGBOOST, KNN, and Multinomial Linear Regression models
- Evaluated the model and utilized it on unseen data for predictions

**CSC447 Parallel Prog/Multic. & Cluster: FAST FOURIER TRANSFORM** **Spring 2023**

- Parallelized and studied an algorithm for the Fast Fourier Transform using OpenMP, MPI, and CUDA

**CSC375 Database Management Systems: DATABASE FOR A RESTAURANT CHAIN** **Fall 2022**

- Designed ER Diagram, translated the schema to tables, and normalized the tables according to BCNF
- Implemented the database using SQL on the Oracle Server

**Achievements and Extracurricular Activities**Mentor and Python Tutor – **USAID Higher Education Scholarship, LAU** **November 2023 - May 2024**Advanced research for social impact - **SDG Brain Lab, UNGC Lebanon****October 2023 - June 2024**