

FATIMA MAAROUF

Computer Science Graduate

CONTACT

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EDUCATION

Lebanese American University, Beirut – Lebanon

Bachelor's in computer science –Graduate

GPA: 3.7 (Distinction Student)

Skills: Computer Applications, Object Oriented

Programming, Objects and Data Abstraction, Computer Organization,

Algorithms & Data Structures, Operating Systems, Database

Management Systems, Scripting, Web programming,

Software Engineering, Networks System, Parallel Programming, Computer Security,

Machine Learning, Mobile Development

WORK EXPERIENCE

Lebanese American University, Beirut – Lebanon

Feb 2020 – Dec 2022

Lab Instructor

- ⊙ Object and data Abstraction **Primary Lab** Instructor at LAU - **current**

Internship

Coders EDM company

June 2021 - August 2021

Rise Holding Group- **WordPress** developer

December 2021- February 2022

Behind Pixel- **WordPress** developer

June 2022- August 2022

Lab Assistant

- ⊙ Helped the students during lab sessions and debugged technical issues
- ⊙ Object Oriented Programming Lab secondary TA(teaching assistant)

PROJECTS

Eservice- Graduation Project

- ⊙ eService is a small jobs website where workers have the opportunity to post their services for customers to book. The website offers several features and aims to facilitate the process of finding a job for employees, as well as finding a suitable worker for the customer's needs. The website has been developed with several key characteristics in mind, such as convenience for both the customer and the employee, quick responsiveness of the website, reliability, privacy, and security.
- ⊙ eService was built with the intention of providing a safe and reliable method of providing and consuming small, one-time, or side services. In the current economic state of the country where many suffer from unemployment and many struggle to find affordable and realistic services, eService offers the opportunity to easily work a side job, and to easily find the service a customer might be looking for.
- ⊙ NodeJs backend – html css js frontend
- ⊙ GitHub link <https://github.com/reem-zubdeh/Capstone-Project>

Red Cross Database

- ⊙ Designed the architecture of a database for the Red Cross by building an Entity Relationship Diagram
- ⊙ Implemented the database structure and relations using SQL and Java
- ⊙ Optimized the dependencies using 3NF, BCNF
- ⊙ Connected Java to SQL code using JDBC
- ⊙ Created a frontend application using Java and connected it to the backend code

Modern Architect Website

- ⊙ User requirements-Functional requirements- Scenarios- Risks-Architecture- Stimulus- Use cases- Feasibility study- ER diagram – First & Second set of sequence diagrams- Data flow Diagrams

- ⊙ Front-End design (JS- CSS- HTML5) -Database
- ⊙ Back-End design PHP(Xampp).
- ⊙ GitHub Link <https://github.com/fatima201900571/ProjectSE-fall2021>

Remote Shell - Linux

- ⊙ Created a remote multi-tasking CLI Shell using multi-threading, pipes, and client-server networking
- ⊙ Implemented a scheduling algorithm on Linux using several algorithms

Sorting Algorithms Application

- ⊙ Implemented various sorting algorithms using efficient data structures (like bubble, quick sort, etc.)
- ⊙ Created the GUI for the application and connected it to the backend code using Java
- ⊙ Designed and implemented real-time visualizations of the sorting algorithms' steps

RISC Processor

- ⊙ Designed a schema of a data path with its functional units
- ⊙ Created a new assembly language which I implemented in Java

Covid Free Campus

- ⊙ Networks System to track covid cases on the campus of the university and detect if there are close cases to you.
- ⊙ Java back end (TCP client server). HTML CSS JS.

Library System

- ⊙ Rental system connected to database system , customer are able to register loyalty points
- ⊙ HTML CSS JS express JS mongodb.

Car Evaluation Model

- ⊙ Machine learning project to evaluate the car as (good , excellent, accepted, totally not accepted) using supervised machine learning algorithms (KNN, SVM, Decision Trees)
- ⊙ Python

Vacation Spot Finder

- ⊙ Mobile application to assist tourists to find the best spot for a vacation based on season and favorites
- ⊙ Android Studio (Java)

SKILLS TECHNICAL SKILLS:

- ⊙ Very good programming skills in **Python, Java, C, SQL, and Bash,**
- ⊙ Basic programming skills in **VHDL, Assembly, and MIPS**
- ⊙ Other skills: **Linux, Regex, Microsoft Excel, and Microsoft PowerPoint**
- ⊙ Work Experience: **NAV ERP, Microsoft dynamics, AL language, Odoo ERP, wordpress**
- ⊙ Full stack developer: **HTML5, CSS ,javascript, PHP, Node JS, Express JS , pug, react, ajax, android developer**
- ⊙ Skilled with database systems: **Xampp(myphpadmin)-mongodb-mysql-NOSQL**

Language Skills:

- ⊙ Arabic (Native tongue), English (Fluent)

AWARDS AND ACHIEVEMENTS

- ⊙ LAU School of Arts and Sciences Dean's **High Distinction** List 2019-2022
- ⊙ LAU Merit Scholarship 2019-2022
- ⊙ Unite Lebanon Youth Project Educational Scholarship 2019-2022
- ⊙ Tomooh -Pepsi Cola scholarship 2019-2022
- ⊙ NYUAD 3rd place winning team in the international quantum hackathon among more than 200 contestants from more than 30 countries. 2022
- ⊙ **A** letter grade on Graduation Project 2022

SELECTED EXTRACURRICULAR ACTIVITIES

- ⊙ Participated in LCPC international competition 2021
- ⊙ Joined the LAU AI club 2021
- ⊙ Took part of All Girls Code Programming Workshop 2018 - 2019
- ⊙ Joined the LAU Computer Science Club 2019 - 2021
- ⊙ Volunteer at ULYP NGO 2020
- ⊙ President and Event Coordinator of "The I in Ethics Club" 2019-2021

- ⦿ Team Leader of Modern Architect Project
- ⦿ NYUAD international computer science hackathon in Abu Dhabi

Sep 2021- Dec 2021
March 2022- April2022