

Mohammad Ballouz

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Education

- **BS in Computer Science**, Lebanese American University **August 2021 - June 2024**
Enrolled in the full merit Higher Education Scholarship funded by **USAID**
Spring 2023 Cumulative GPA: 3.5
- **Lebanese Baccalaureate**, Shhim Public High School **October 2018 - June 2021**
General Sciences: 18.22

Extracurricular Activities

- **Outreach Volunteer, Lebanese Vegans Social Hub** **September 2022 - Present**
 - Assist in preparing food and collecting clothes through donations.
 - Distribute clothes and food boxes to the disadvantaged in Beirut region.
- **Groundwork Volunteer, Mission Village** **September 2022**
 - Cleaned and painted rooms in the Mission Village shelter for the homeless.
 - Helped in constructing beds and closets for the shelter.
- **Data Collection and Entry, Rashet Kheir** **January 2022 – February 2022**
 - Helped in organizing a workshop tackling youth skills.
 - Assisted in data entry of the attendees' information.
- **Safeguard Volunteer, Beirut Marathon Association** **September 2021**
 - Distributed water to the participants.
 - Assisted the Red Cross in safeguarding the participants.

Achievements

- **Millennium Fellowship, Class of 2022** **August-December 2022**
 - Led a community service project over a semester, and moderated a global webinar with Albie Sachs, a retired judge of the South African Constitutional Court.
 - Earned a certificate recognizing successful completion of the program from the **United Nations Academic Impact** and **MCN**.

Projects

- **MENTAL HEALTH MOBILE APPLICATION** **Spring 2023**
CSC498 – Mobile Development
 - Developed a mental health mobile application using the Flutter framework
 - Used Dart programming language
- **SPA MANAGEMENT SOFTWARE** **Spring 2023**
CSC490 – Software Engineering
 - Implemented the software using React Native and conducted Unit testing
 - Specified the software requirements as user or system requirements

- Designed the software architecture and sketched the UML diagrams

PARALLEL ALGORITHM: FAST FOURIER TRANSFORM

Spring 2023

CSC447 – Parallel Progg/Multic. & Cluster

- Parallelized an algorithm for the Fast Fourier Transform
- Parallelized using OpenMP, MPI, and CUDA, and studied each code's behavior

DATABASE PROJECT FOR A RESTAURANT CHAIN

Fall 2022

CSC375 – Database Management Systems

- Designed Entity-Relation Diagram for a restaurant chain Database
- Translated the ER schema to tables and normalized the tables according to BCNF
- Implemented the database using SQL on the Oracle Server

DESIGNING A SIMPLE RISC PROCESSOR

Spring 2022

CSC320 – Computer Organization

- Created instruction structures and implemented them in C and assembly language
- Sketched the data paths for the instruction, and designed a MIPS Green Sheet for the processor

Skills

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| • Java and OOP development | • React Native |
| • Data structures and algorithms | • Flutter (Dart) |
| • Intermediate in C | • Relational database design |
| • Programming in Python | |
| • Oracle SQL | |
| • Languages: Arabic (Mother tongue), English (Fluent: spoken and written) | |