

Sumaya Hariri

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OBJECTIVE

Motivated graduate student currently studying for a master's in computer science and prepared to contribute into organizational success while developing new skills and gaining real-world experience. Highly organized, responsible and hardworking.

EDUCATION

American University of Beirut (AUB), Lebanon Jan 2023-Present

Master of Science in Computer Science

GPA: 3.98/4

Expected graduation date: July 2025

Lebanese University (LU), Nabatieh, Lebanon Sep 2019- Oct 2022

Bachelor of Science in Computer Science

GPA: 79.9/100

EXPERIENCE

American University of Beirut, Beirut, Lebanon

Teaching assistant Jan 2023-Present

- Designed and delivered interactive lab sessions for over 150 students in courses such as *Introduction to Programming (Java)*, *Data Structures (Java)*, *Programming for Everyone (Python)*, *Web Programming and Design (HTML, JavaScript, CSS)*, and *Data Science*.
- Conducted weekly recitation sessions on *Discrete Structures* to clarify key concepts and improve student understanding.
- Assessed and provided constructive feedback on student assignments, projects, and exams to support learning outcomes.
- Assisted in delivering the online course *Data Science for Public Policy*, ensuring material clarity and accessibility.

Research assistant - Department of Computer Science Jan 2024-Present

- Conducting research as part of my thesis to develop a deep learning model for estimating calorie counts from food images using computer vision and machine learning.
- Assisted with mini-tasks requiring automated solutions, such as data preprocessing and visualization, to streamline research workflows.

Research assistant - Department of Architecture Jun 2024-Jan 2025

- Contributed to a project optimizing building shapes to reduce solar insolation by enhancing and debugging existing MATLAB code, improving efficiency and usability.

Private tutor Jan 2023-Jan 2025

- Provided one-on-one and small group tutoring sessions to over 12 MEPI students in various computer science courses, fostering personalized learning and academic success.
- Offered additional private tutoring to students outside the university, tailoring lessons to individual needs and learning goals.

CodeWave, Nabatieh, Lebanon Feb 2022-Jan 2023

Web and App development

- Worked on delivery management system website using ASP.Net
- Worked on an application that helps distributors generate invoices and keep track of their clients (locations, items sold and bills) using Xamarin.

Brighchamps Academy, Remote, India Dec 2021-Dec 2022

Coding instructor

- Provided one-on-one remote coding sessions for over 20 children (6-16 years old) utilizing Scratch, Thinkable, Code.org, Edublocks, and a range of programming languages including Python, HTML, JavaScript, and others.

EXTRACURRICULAR ACTIVITIES

FAS SRC, AUB, Beirut, Lebanon Oct 2023-Present

Student representative committee

- Led the sponsorship team for the FAS Gala 2025, successfully securing key sponsorships from prominent organizations to support the event. Managed and guided team members in identifying and approaching potential sponsors, ensuring effective collaboration and achieving sponsorship targets.

- Assisted in planning the FAS Gala that took place in January 2024 which generated profits that were donated to several organizations.
- Volunteered in entertainment and educational activities for orphans at Dar Al Aytam, Ouzai.
- In collaboration with NAC AUB, we organized a trip to Mseilha in April 2024 with over 45 participants. The event generated profits, which we donated to support our chosen cause.
- Worked on several proposals to improve student life on campus and to help teaching assistants conduct labs more efficiently.

AUB Archery Varsity Team, AUB, Beirut, Lebanon

Sep 2024-Present

Team Member

- Active member of the *Archery Varsity Team*, participating in regular training sessions and preparing for future competitions.

AUB Outdoors, AUB, Beirut, Lebanon

May 2024

Security Member

- Volunteered as a security team member for the two-day student-led event *AUB Outdoors*, ensuring safety, managing crowd control, verifying tickets, and overseeing entry to ensure smooth operations.

Feed The Need, Beirut, Lebanon

Mar 2024

Volunteer

- Participated in organizing a *Suboor* event at Dar Al Aytam, Beirut, where we helped serve meals, engaged with the children, and organized fun activities to foster a joyful and inclusive environment during Ramadan.

PROJECTS

Breast Cancer classifier

Spring 2024

Created a machine learning model to classify breast cancer into its four types using Python as part of machine learning course.

Genome Assembler

Fall 2023

Worked on a project that required building a genome from motifs. Used de bruijn graphs and implemented the code in C as part of bioinformatics course.

UAV path planning in WSNs

Spring 2023

Worked on a research paper that involved optimizing the path of a UAV collecting data from prioritized sensors. The problem was then implemented on MATLAB as part of network modeling and optimization course.

Delivery management system website

Mar 2022- June 2022

Developed a delivery management system website that included all operations that a user might need. Users were split into 3 types, provider, driver each having different tools to use for example a provider can manage orders, create new ones, track orders and more. Using Asp.Net which was part of my internship at CodeWave.

Distributors app

June 2022- Nov 2022

Developed an application that was made for drivers delivering products to different stores and supermarkets where the driver can create invoices with the products distributed and keep track of clients and their locations. Using Xamarin which was part of my internship at CodeWave.

Website for Islamic Center for Guidance and Higher Education

Spring 2022

Developed a website that lists all universities in Lebanon, including all faculties and all available majors using PHP which was my final year project in the Lebanese University.

E-vote app

Fall 2021

Created a voting app where users can create polls, vote in other people's polls using poll id, check poll results and more using Android Studio as part of app development course.

WORKSHOPS AND CERTIFICATIONS

Fall in love with Machine Learning Online Workshop with ZAKA, Beirut, Lebanon

Feb 2023

- 2-hour hands-on Machine Learning Workshop, hosted by Christophe Zoghbi.

Girls for change with Beirut film society, Nabatieh, Lebanon

Aug 2018

- 4-day workshop included videography, video editing using Adobe Premiere and script writing.

OTHER SKILLS AND INTERESTS

- **Programming languages:** C, C++, C#, Java, JavaScript, Python, PHP, SQL, HTML5, CSS, MATLAB.
- **Frameworks & Technologies:** React, ASP.Net/MVC, Xamarin, Android Development.
- **Data Science & AI:** Experienced in developing, training, and evaluating machine learning and deep learning models.
- **Soft skills:** Problem solving, time management, training & teaching.
- **Interests:** Machine learning and AI, software development, web and app development, volunteering, yoga, archery, hiking, camping...