

Maghi Haidar

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EDUCATION

American University of Beirut, (AUB) <i>Bachelor of Engineering in Computer and Communications Engineering</i> <ul style="list-style-type: none">• Recipient of the Women Leaders in Engineering Scholarship and LIFE Lebanon Scholarship	Beirut, Lebanon 09/2021 - 05/2025
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WORK EXPERIENCE

Technical University of Munich (TUM) <i>Research and Development Intern, Chair of Material Sciences</i> <ul style="list-style-type: none">• Conducted comprehensive literature research on Proton Exchange Membrane (PEM) Fuel Cells• Developed, optimized and debugged a Python communications script to automate electrochemical testing processes	Munich, Germany 06/2024 - 08/2024
Electrical and Computer Engineering Department <i>Teaching Assistant, "EECE 321: Computer Organization Course"</i> <ul style="list-style-type: none">• Assisted in grading assembly programming assignments and Verilog projects for the students	Beirut, Lebanon 01/2024 - 05/2024
<i>Research Assistant, "AI-Enabled Detection/Aggressiveness Prediction of Prostate Cancer Lesions"</i> <ul style="list-style-type: none">• Extracted, compiled and organized patients' data from the clinical applications at the AUB Medical Center	09/2023 - 12/2023
<i>Research Assistant Intern, "Smart Virtual Sensors"</i> <ul style="list-style-type: none">• Reviewed and edited the research paper prior to Institutional Review Board (IRB) submission• Collaborated to the execution of the research experiments in the laboratory	06/2023 - 08/2023
<i>Teaching Assistant, "Pipeline Initiative"</i> <ul style="list-style-type: none">• Worked on part of the software development of the mentorship program that sends automatic emails to connect between mentors and mentees• Assumed the role of content editor for the Pipeline Initiative webpage	09/2022 - 05/2023

ACADEMIC PROJECTS

American University of Beirut <i>Quantum Enhanced Machine Learning for Optimized Solar Energy Utilization</i> <ul style="list-style-type: none">• Developed a real-time optimization system to maximize solar energy utilization by addressing mismatches between production and consumption• Built a full-stack solution integrating quantum and classical machine learning models (LSTM & QLSTM), Python based optimization, and IoT technologies for real-time control	Beirut, Lebanon Final Year Project 05/2025
<i>Employee Recommendation System</i> <ul style="list-style-type: none">• Developed a recommendation system using Django and implemented machine learning algorithms to generate personalized recommendations based on user input and dataset insights• Deployed the application using Azure Web Services	12/2024
<i>Secure E-commerce Web Application</i> <ul style="list-style-type: none">• Developed a secure e-commerce web application using Python Flask, focusing on robust programming, secure coding practices, and defense against common vulnerabilities.	11/2024
<i>Real-Time Parking Spot Detection using YOLOv8</i> <ul style="list-style-type: none">• Built a machine learning model which utilizes YOLOv8 to detect parking spaces labeling them as empty or occupied	05/2024
<i>Polynomial Arithmetic Cryptography</i> <ul style="list-style-type: none">• Developed a GUI calculator that performs polynomial operations in Galois Field(2^m) using Python, CSS, and HTML	11/2023

LEADERSHIP AND VOLUNTEERING ACTIVITIES

<i>Mentor in the Google Developer Groups (GDG) on Campus program</i> <ul style="list-style-type: none">• Offered guidance and advice to the GDG on Campus new organizers and active chapters• Shared resources and encouraged participation in creating events to foster community engagement	09/2024 - Present
<i>Secretary of International Association for the Exchange of Students for Technical Experience (IAESTE)</i> <ul style="list-style-type: none">• Coordinated with the Office of Students Affairs to obtain approvals for events and social media content• Managed the communication of incoming internship offers to the club members	09/2024 - Present
<i>Head of Google Developer Student Club (GDSC), AUB</i> <ul style="list-style-type: none">• Organized and led Tech workshops, seminars, and hackathons• Networked and collaborated with other student leaders, professional community organizers, industry experts, & Google	07/2023 - 09/2024
<i>SDG Coordinator and Founder of the SDG Student Hub, AUB</i> <ul style="list-style-type: none">• Collaborated with several local NGOs to strategize and implement effective food distribution programs• Implemented several clean up campaigns in collaboration with local environmental NGOs	08/2022 - Present
<i>Member of the Lebanese Red Cross (LRC) Club, AUB</i> <ul style="list-style-type: none">• Spearheaded awareness sessions for beneficiaries about Sustainable Consumption and Production as an SCP Facilitator in the LRC Youth Sector	10/2021 - Present

SKILLS & CERTIFICATIONS

Skills: MatLab, LabVIEW, PSPICE, Mobile Development, C language, Python, C++, Java, VHDL, Verilog, JavaScript, HTML, CSS, Flask, SQL, MySQL, GitHub, Microsoft Office (Word, Excel, PowerPoint)

Certifications and Awards: "Biomedical Research" and "Responsible Conduct of Research for Engineers" certifications from CITI Program, ranked 3rd place in the "Mentorship Industry Program" in collaboration with Amazon and IEEE, "Mobile Application Development Training" with DOT Lebanon

Languages: English (Fluent), Arabic (Native), French (Basic)