Kosay Darwish

Beirut, Lebanon

+961-81-495-472 kosay11840@gmail.com in Kosay_Darwish Kosay_Darwish

EDUCATIONAL BACKGROUND

	American University of Beirut	Beirut, Lebanon
Sep 2022 -Dec 2026	• BE in Computer and Communication Engineering |**GPA 3.98/4** • USAID HES-RSS Scholar • Minoring in Applied Mathematics • Dean's Honor List for all semesters at AUB	American University of Beirut
Relevant courses	Data Structures and Algorithms, Machine Learning, Data-Driven Modeling in Science and Eng'g, Design and Analysis of Algorithms, Database Management, Software Eng'g, Computer Networks	

EXPERIENCE

2024/present	**Coding Coach-Teacher Assistant in EECE 330** • Taught a course about Data Structures and Algorithm using C++ • Taught a weekly lab and held Office Hours	Beirut, Lebanon
2024/present	**Hand Organization &The Digital School(TDS)- Content Creator** • Created school content for the digital school dashboard.	Beirut, Lebanon
2023/2024	**Research Assistant-AUB** • Worked on biodiversity conservation project-Saving Lebanese Biodiversity (SLB)- using ML and citizen science	Beirut, Lebanon

PROJECTS

2024/2025	**Medical Scheduling Platform- Eece 430** • Developed, as part of a team, a web-based medical scheduling platform for managing doctor-patient appointments. • Utilized React for the front-end, Express.js for the back-end, and PostgreSQL for database management to efficiently handle doctor availability and appointment bookings.	Beirut, Lebanon
2024/2025	**Earthquake Magnitude and Tsunami Risk Prediction using DL – EECE 490** • Developed machine learning models for earthquake magnitude prediction and tsunami risk assessment. • Integrated economic loss predictions based on seismic events to evaluate financial impacts.	Beirut, Lebanon
2024/2025	**Earthquake Aftershock Forecasting Project using DL- Eece 798k** • Developed a ConvLSTM-based model for real-time earthquake aftershock counts forecasting using seismic data, achieving high accuracy in predicting aftershock occurrences	Beirut, Lebanon
2023/2024	**Let's Chat- Eece 350** • Implemented a team project of a socket-based Chatting Application in Python to allow sending and receiving messages efficiently and reliably and attachments between two users. • Implemented the GUI part (front end), in addition to the reliability of UDP and the testing.	Beirut, Lebanon
2024/2025	**PlanTech-Eece 425** • Successful implementation of an IoT team project using ESP-32 Microcontroller and ESPidf to automate and regulate plant irrigation.	Beirut, Lebanon
2024/2025	**Loan Management System- Eece 433** • Developed a comprehensive **Loan Management System** for managing loan applications, approvals, and payments, utilizing advanced database features such as **views, triggers, and stored procedures** to ensure data integrity and automate business logic..	Beirut, Lebanon

EXTRACURRICULAR ACTIVITIES

2023-present	**University** • Member at Large of the HES Club Cabinet • Member of IEEE society	Beirut, Lebanon
2023-present	**Volunteering** • MMKN Public School Support System: Supervisor • Community Service project under the supervision of CCECS AUB	Beirut, Lebanon
2022-2025	**Certificates and Workshops** • NASA SpaceApps Challenge • Certificate Program: "Humanitarian Aid: Global Perspectives and Local Practices". • Active Member of AUB DDD Club • E-Portfolio, ACM, Arduino, Beyond an Engineer Workshop.	Beirut, Lebanon

SKILLS

Technical Skills: Flutter, Python(pandas, OpenCV, PyTorch, ML libraries), C++, Verilog, Assembly, MATLAB, SQL.

Languages: Excellent proficiency in English and Arabic.