

Laure Mohsen – Electrical and Computer Engineering Master’s Student | Computer Science Graduate

+961 76 989 175 | lauremhsn@gmail.com | [LinkedIn](#) | [GitHub](#) | Beirut, Lebanon

Motivated Computer Science graduate with hands-on experience in programming, web development, project management, databases, machine learning and software engineering.

PROFESSIONAL EXPERIENCE

Beirut & Tyre, Lebanon

2026: Lab Graduate Assistant – Computer Organization Laboratory GA

- Supported hands-on labs covering digital logic, FSM design, sequential circuits, and interrupt-driven I/O
- Assisted students with FPGA design projects using Vivado Xilinx and Verilog HDL on Artix 7 boards
- Guided students through RISC-V assembly programming and microcontroller interfacing using Freedom Studio

2024: Tutor and professor assistant – Computers and Programming for the Sciences Lab TA

- Worked as a teacher’s assistant for the lab belonging to computers and programming for the sciences
- Supported students to become proficient in Excel in order to complete their assigned exercises

EDUCATION

Beirut & Tyre, Lebanon

2026 - 2028: **Master’s in Electrical and Computer Engineering – American University of Beirut**

2022 - 2025: **Bachelor’s in Computer Science and Math Minor – American University of Beirut**

2021 - 2022: **General Sciences Baccalaureate – Lebanese Evangelical School of Tyre**

CERTIFICATES

Beirut, Lebanon - Johannesburg, ZA - Bangkok, Thailand

- ~3 international awards in World Numeracy Championship, Japanese Soroban & Mental Maths International Competition (1st place in October 2018, October 2017, May 2017)
- ~3 certificate of Appreciation (Outstanding Work and Innovative Ideas in Mathematics, Smart College, Abacus and Mental Calculation Ability, iSmart Program)

LANGUAGES English (Fluent), Arabic (Native)

CODING LANGUAGES C, C++, CSS, HTML, Java, JavaScript, MySQL, Python, R, SQL, PHP

FRAMEWORKS & TECHNOLOGIES Spring Boot, Node.js, Shiny, ggplot2, BERT, DistilBERT, GraphSage, Flask, Docker

SOFTWARE & TOOLS Proficient (LaTeX, MS Word, MS Excel, MS PowerPoint) Intermediate (Linux, Oracle, Node.js, Verilog)

INTERESTS: Travel, Emerging Technologies, Social activities

PROJECTS

Beirut, Lebanon

As a duo, built a Graph-Enhanced DDI Detection system (Python, PyTorch Geometric, Flask)

- Built heterogeneous GNN for drug-drug interaction prediction; 4,795 drugs, 824K DDI edges, AUROC 0.9738
- Designed NCN-style decoder with nnPU loss; deployed as live clinical decision support API on HuggingFace

As a team of 3, optimized Sparse Triangular Solve (SpTRSV) on GPU (CUDA, C++)

- Implemented 4 parallel CUDA kernels with adaptive dispatch; achieved up to 1,235× speedup over CPU

Led team of 4 people to develop Advanced Battleship Game (C)

- Implemented strategic algorithms using an AI Bot to improve the win rate by 30%
- Performed enhancements on the UX for better experience

As a team of 4, designed and developed a social media platform for people who code (CSS, HTML, JavaScript, Node.js)

- Implemented features such as user authentication, profile customization, and real-time interactions

As a duo, created two applications to simulate communication through UDP channels (Java)

As a team of 3, developed a university library management system (CSS, HTML, JavaScript, PHP, MySQL)

Additional projects: Sudoku Solver, music recommendation system (R, Shiny), sentiment analysis model (BERT/DistilBERT), various web implementations