Melissa Mourad

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EDUCATION

Bachelor of Science in Computer Science

Minor in Business · Lebanese American University · Byblos · 2023-2026 · CGPA: 3.19

PROJECT

Design and Implementation of a Municipality Database

September 2024 – December 2024

· Designed and implemented a municipal database on Oracle.

· Developed an ER model and translated it into relational schemas.

· Normalized to BCNF for e ciency and minimal redundancy.

· Executed complex SQL queries and documented project phases.

Design of a Simple RISC Processor

March 2024 – March 2024

· Designed a RISC processor with a 16-register architecture.

· Defined instruction set, register structure, and memory organization.

· Specified arithmetic, logical, memory, and control operations.

· Developed datapath layout and identified required components.

· Collaborated on instruction formats, opcodes, and key design decisions.

CERTIFICATIONS

SQL (Intermediate)

HackerRank · 2025

Python (Basic)

HackerRank · 2025

IBM Z Day 2024 – AI & Data Certificate

BeMyApp · 2024

IBM Z Day 2024 – IBM Z Skills Certificate

BeMyApp · 2024

IBM Z Day 2024 – Security Certificate

BeMyApp · 2024

SKILLS

Front-End Development: HTML, CSS, Javascript, XML

Programming Languages: Python, Java, C

Database Management: SQL

Programming Tools: Eclipse, Visual Studio, Oracle

Languages: Arabic, English, French