

Omar Ramadan

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EDUCATION

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| American University of Beirut , Beirut, Lebanon | August 2021 — May 2025 |
| BE in Computer and Communications Engineering (CCE) | Cumulative GPA: 3.79 |
| Third-year undergraduate student following the software and networking focus areas. | Credit standing: Dean's Honor |

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| Collège de la Sagesse - Beyrouth , Beirut, Lebanon | September 2016 — June 2021 |
| French General Baccalaureate (Specialities: Mathematics, Physics & Chemistry) | Official Ex amination: 16.94/20 |

EXPERIENCE

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| American University of Beirut | Beirut, Lebanon |
| <i>Teaching Assistant - Introduction to Computation and Programming</i> | Fall 2023 |
| <ul style="list-style-type: none">Orchestrated engaging weekly labs, held office hours discussions, conducted problem solving sessions, and assisted +30 students in their python-based programming assignments. | |

PROJECTS

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| RISC-V Pipelined Datapath | |
| <i>Project Link:</i> https://github.com/omarram811/EECE321-Final-Project | April — May 2023 |
| <ul style="list-style-type: none">Complete linux-based implementation of a 32-bit pipelined RISC-V processor datapath using VHDL. This datapath detects and handles data hazard, implements a data forwarding unit and a hazard detection unit, and supports early branching. | |

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| Speed-determined Multiplayer Game | |
| <i>Project Link:</i> https://github.com/omarram811/EECE350---Final-Project | April — May 2023 |
| <ul style="list-style-type: none">A three-rounds, Python-based multiplayer game implemented using socket programming. This game is based on number randomization, handles a flexible number of players, and determines scoring by RTT comparison of correct input. | |

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| Modified 15-Puzzle Solver | |
| <i>Project Link:</i> https://github.com/omarram811/Modified-15-Puzzle-Solver | July — August 2022 |
| <ul style="list-style-type: none">C++ implementation of the 15-Puzzle game solving algorithm, with ability to handle N-sized matrix variation of the game, if provided instance is solvable. | |

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| Sequence Detector Design | |
| <i>Project Link:</i> https://github.com/omarram811/Sequence-Detector-Design | November — December 2022 |
| <ul style="list-style-type: none">Structural and behavioral VHDL implementation of a multiple-of-three sequence detector. This design relies on FSM and the logical correspondence between the two applied architectures. | |

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| ReviewMe | |
| <i>Project Link:</i> https://github.com/omarram811/ReviewME-Website | August — September 2023 |
| <ul style="list-style-type: none">Design of a hotels and restaurants website using HTML, CSS and JavaScript. | |

EXTRA-CURRICULAR ACTIVITIES

- IEEE club and Competitive Programming club:** Attended several club activities and workshops on competitive programming, artificial intelligence and machine learning.
- Amazon x WIE Industry Program:** Participated in a 3-days boot-camp followed by a five-weeks Mentorship Program. Developed an iOS-based prototype for a reviewing application that supports business-to-customer feedback.
- Part-time Tutor:** 3+ years of tutoring experience in mathematics, physics, chemistry, and biology for high-school students.
- Évasions Linguistiques:** launched and occasionally posting on a French writing page on Instagram ([@evasionslinguistiques](#)).

SKILLS

- Relevant Coursework:** Design and Analysis of Algorithms, Data Structures & Algorithms, Object-Oriented Programming, Computer Networks, Digital Systems Design, Computer Organization, Numerical Computing, Mobile Networks and Applications, Software Engineering, Introduction to Machine Learning
- Programming Languages:** Python, C++, Java, HTML, CSS, MATLAB, JavaScript, VHDL, RISC-V Assembly
- Other Technical Skills** Microsoft Office, Linux, PSpice, Ansys, Wolfram Mathematica
- Language:** Arabic (native), English (fluent), French (fluent)
- Interests:** Creative writing, Poetry, Reading, Cycling, Swimming