

Aya El Hajj

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Education

American University of Beirut (AUB)

Bachelor of Engineering in Computer Science and Engineering

2023 – 2027

- Dean's Honor List: Spring 2023–2024, Spring 2024–2025, and Fall 2025–2026
- Cumulative GPA: 3.71 / 4.0

Notre Dame de Nazareth – Achrafieh

French Baccalaureate, Scientific Field

Final Grade: **17.68**

Relevant Coursework

Data Structures and Algorithms, Design and Analysis of Algorithms, Theory of Computation, Computer Organization, Digital Design, Object-Oriented and Effective Java Programming, Programming Language Design and Implementation, Computing Networks and Services, Operating Systems, Cryptography and Network Security, Machine Learning.

Experience and Certifications

Social Media Officer – Main Cabinet Member

Google Developer Group on Campus, AUB

January 2025 – August 2025

- Designed and managed visual content and branding for chapter events and social media, collaborating with the outreach team on campaigns.

LebNet Tech Fellows Program 2024

- Participated in a 6-month fellowship program which includes mentorship sessions and industry talks led by professionals in the technology sector.

Relevant Projects

All projects listed below were completed collaboratively as part of team-based coursework or programs.

- **StudyWise – AI-Powered Learning Platform**

Program: Industry Program Bootcamp & Mentorship Program

Organized by WIE in collaboration with AWE and MSFEA

Developed an AI-assisted educational platform with user authentication, form-based requests, and an interactive chatbot built. We implemented three version of the chatbot using Ollama, Chainlit, and ChatbotBuilder AI to support academic and study-related inquiries.

GitHub: github.com/codaya2005/Project-Submission—LimeGeek

- **AUBoutique – Marketplace Application**

Course: Computing Networks and Services

Designed and implemented a GUI-based desktop marketplace with secure authentication, product management, search and filtering, real-time messaging, and an SQLite-backed client–server architecture.

GitHub: github.com/ghada49/Project-Phase-2

- **Guided Vision – Vision–Language Assistive System**

Course: Machine Learning

Implemented a real-time assistive system using vision–language models, deployed on local computer but also a Raspberry Pi to interpret visual scenes and identify potential hazards.

GitHub: github.com/Joud158/Guided_Vision

- **PolyLab – Cryptography Learning Platform**

Course: Cryptography and Network Security

Built a secure, role-based (professor, student, admin) cryptography learning platform featuring class management, material upload, graded assignments, authentication security mechanisms, and a $GF(2^m)$ polynomial calculator.

GitHub: github.com/Joud158/PolyLab

Other Projects

- **Pedestrian Crossing Light – Digital Design Project**

Course: Digital Design

Designed and implemented a pedestrian traffic light controller in Verilog, featuring red/green light control, countdown timers, and seven-segment display output.

- **Text Scrambler & Descrambler – RISC-V Assembly Project**

Course: Computer Organization

Implemented a text scrambling and descrambling system in RISC-V assembly using a seed-based pseudorandom algorithm, with input validation and output displayed via the RARS simulator.

Skills

- **Programming Languages:** Proficient in Python, C, C++, and Java. Have worked in MATLAB.
- **Hardware & Low-Level:** Good knowledge of Verilog and RISC-V Assembly; completed simple projects using both. Worked on FPGA board and RED-V board.
- **Web & Frontend:** Good knowledge of HTML and CSS; worked on projects involving JavaScript, TypeScript, and the React framework.
- **Operating Systems:** Comfortable working in Linux environments and virtual machines.
- **Languages:** Fluent in Arabic, French, and English.
- **Soft Skills:** Teamwork, ability to work under pressure, communication, and presentation skills.