

Maria Abi Nakhoul

42 Student – Level 6

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 [Linkedin](#)

Education

42 Beirut - Level 6 (expected graduation date: Summer 2026) **2024 – Present**

42 Core Curriculum - Architecture of Digital Technologies Program

Notre Dame University Lebanon (expected graduation date: June 2028) **2023 – Present**

Bachelor in Computer and Communication Engineering

Experience

CMA CGM **March 2025 – June 2025**

Front End Intern *Beirut, Lebanon*

- Low-Code/No-Code Automation (1 month): Automated internal processes and optimized workflow efficiency using low-code/no-code platforms.
- Front-End Development (2 months): Contributed to building user-friendly interfaces and data-driven dashboards within the data team, enhancing collaboration and technical proficiency in a corporate environment.

Cranium **January 2025 – Present**

Robotics Tutor *Lebanon*

- Tutor students aged 4 to 13 in robotics and basic programming.
- Teach Arduino platforms, LEGO Mindstorms, EV3, WeDo and mBot.
- Simplify technical concepts and deliver hands-on, engaging lessons.

Selected Projects

Minishell | C, Linux (UNIX System Programming) **June 2025**

- Developed a simplified Linux shell in C that replicates core Bash functionalities.
- Implemented command parsing, tokenization, redirections, pipes, and environment variable handling through a custom flexer-parser structure.
- Created custom implementations of essential built-ins such as cd, echo, export, unset, env, and exit.

Cub3D | C, MiniLibX, Computer Graphics **August 2025**

- Developed a first-person 3D recasting engine inspired by Wolfenstein 3D, fully implemented in C.
- Built a complete rendering pipeline using the DDA algorithm to calculate wall distances, projection, and texture mapping.
- Utilized the MiniLibX graphics library to manage windows, events, images, and pixel-level drawing..

Webserv / C++, HTTP Server Development, Networking**December 2025**

- Implemented a fully functional HTTP/1.1 web server in C++ capable of handling multiple concurrent client connections.
- Built a non-blocking I/O event loop using poll() to efficiently manage large numbers of sockets..
- Implemented server configuration parsing (similar to Nginx) enabling virtual hosts, routes, redirects, error pages, and upload limits.

Technical Skills

Programming Languages: Python, C++, C, HTML/CSS, Bash**Developer Tools:** VS Code, GitHub, Linux/Ubuntu**Technologies/Frameworks:** MiniLibX, Node.js, React, Power Apps, Arduino**Project Management tools:** JIRA, Notion, Microsoft Teams/Slack, Google Workspace(G Suite)**Extracurricular Activities**

IEEE and WIE Club, Notre Dame University**Fall 2024 – Present***CE Chair and Social Media Representative*

- Lead Computer Engineering initiatives and contribute to technical event planning.
- Manage social media platforms and drive engagement within the engineering community.

French Club, 42Beirut**Spring 2025 – Present***President*

- Lead and oversee all club operations, including planning cultural events, workshops, language-learning activities.
- Promote French language and culture through creative events, collaborations, and outreach.

Scouts, Groupe Saint Joseph Antoura**2014 – 2025***Chief*

- Lead weakly activities and managed a team of younger scouts through educational, social and outdoor programs.
 - Oversee safety, discipline, and coordination during meetings and outings.
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