

Nour Fakhri

42 Student – Level 5+

+961 76-042-591 | fakhrih80@gmail.com | github.com/fakhrih80

[linkedin.com/in/nour-al-zahraa-fakhri](https://www.linkedin.com/in/nour-al-zahraa-fakhri) | Canadian/Lebanese

Education

42 Beirut - Level 5+

April 2025 - Present

42 Core Curriculum - Architecture of Digital Technologies Program

Beirut Arab University

September 2023 - Present

Bachelor in Computer Engineering

International Baccalaureate Diploma

September 2021 - May 2023

Focus on research, application, and analysis

Selected Projects

GitHub Summary | *AI Driven Profile Summary and Feedback*

April 2026

- Created an AI agent integrating GitHub and Groq APIs to automate profile evaluation against job requirements
- Implemented LLM-based feedback generation and multi-turn conversation using Groq API, with prompts optimized for token cost
- Used Rich library for CLI formatting

Cub3d | *3D Raycasting Game Engine*

January 2026

- Engineered a 3D raycasting engine, in C, to render first-person maze navigation from 2D maps (Wolfenstein inspired)
- Implemented the DDA algorithm for raycasting with collision detection and real time rendering
- Managed input processing for simultaneous movement and camera rotation without lagging
- Collaborated with a teammate using **Git**, resolved merge conflicts, code reviews, and maintained code organization

Minishell | *Bash Implementation from Scratch*

November 2025

- Built a fully functional bash shell, in C, with signal handling, pipeline management, and command execution
- Worked in parallel with a teammate over 2+ months, using Git
- Implemented parsing and execution logic, covering complicated edge cases
- Managed memory safety across a large program, eliminating segmentation faults and resource leaks through testing

Philosophers | *C solution for the philosophers dining problem*

December 2025

- Solved concurrent dining philosophers problem in C with thread-safe synchronization using mutexes
- Debugged and eliminated race conditions and deadlocks with 200+ concurrent threads through testing
- Implemented precise timing controls to enforce state transitions and resource allocation

Relevant Coursework and Workshops

- Jira Project Management Workshop, CMA CGM **July 2025**
 - Learned Jira through an Agile workflow
- ReactJS Workshop, 42 Beirut **July 2025**
 - Built a website using ReactJs
- Design and Analysis of Algorithms, BAU **May 2025**
 - Hands on discovery of time complexity and efficiency
- Web Development, BAU **September 2023**
 - Created an interactive website using HTML, CSS, PHP, and JavaScript
- Software Engineering, BAU **May 2024**
 - Engineered, within a team, an AI CV analyzer
- Database Systems, BAU **November 2024**
 - Engineered a database and website connecting pharmacies, patients, and hospitals using mySQL

Extracurricular Activities

Ahla Fawda

Volunteer

- Helped distribute food to children and families
- Coordinated social events (e.g. Halloween Parade)