

# Mohamad Khalil Harajli

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## EDUCATION

**Bachelor of Science in Computer Science, Lebanese University** (2022 – Present, Graduated 2025)

- Relevant coursework: Data Structures, Algorithms, Database Systems, Object-Oriented Programming (OOP), Software Engineering

**42 Beirut Student** (2024 – Present)

- Student at 42 Beirut, gaining experience in collaborative, project-based software engineering.
  - Built software engineering skills through peer-to-peer, project-based learning.
  - Focused on coding, system administration, and algorithms while collaborating with peers.
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## PROJECTS

- **Minishell (C):** Collaborated with a peer to develop a simplified Unix shell ( $\approx$  2 months). Implemented command execution with pipes, redirection, signal handling, and environment variable management.
- **Push\_Swap (C):** Developed an optimized sorting algorithm for stack-based data manipulation ( $\approx$  1 week), meeting performance benchmarks.
- **So\_Long (C):** Built a 2D game using MiniLibX with keyboard controls, map validation, and graphical rendering ( $\approx$  1 week).
- **Movie App (React):** Created a movie browsing and filtering app using APIs for real-time search functionality ( $\approx$  2 weeks).
- **Weather App (JavaScript):** Developed a weather dashboard using APIs for real-time data (MiniProject  $\approx$  1 day).
- **BrickBreaker Game (JavaScript):** Designed a classic arcade game with scoring system and dynamic gameplay (MiniProject  $\approx$  3 days).
- **Quiz App (JavaScript):** Built an interactive quiz app with random questions and scoring (MiniProject  $\approx$  1 day).
- **Shortify (PHP):** Collaborated with teammates to build a URL shortener backend project ( $\approx$  1 week).

- **Medical Center Management System (PHP):** Developed a backend project for managing patients, appointments, and staff ( $\approx$  3 days).
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## ORGANIZATIONS

### TechLarious

- Learned MERN stack (MongoDB, Express.js, React.js, Node.js) through hands-on projects and community involvement.
- Collaborated on building web applications and strengthening full-stack development skills.

### 42 Beirut

- Student at 42 Beirut, gaining experience in collaborative, project-based software engineering.
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## SKILLS

- **Programming Languages:** C, Java, JavaScript, PHP (basics), C#.NET (basics)
- **Frameworks & Libraries:** React.js, Node.js, Express.js
- **Databases:** MSSQL, MongoDB
- **Areas of Knowledge:** Data Structures & Algorithms, Parallel Programming (Java, C), Operating Systems (OS1 & OS2)
- **Tools:** Git, Debugging, Algorithm Optimization