Ali Mohsen | Computer Science Junior

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Profile:

Computer Science Junior at the American University of Beirut (AUB), doing a minor in Mathematics as well.

With proficiency in programming with several programming languages including JAVA, C, Python, and C++, I gained experience in problem-solving, implementing solutions, and integrating data structures. Moreover, I'm interested in the theory of computation and the mathematics behind the algorithms. Nevertheless, by working with a team, I gained experience in VCSs and programming with colleagues. In addition, I'm going through software engineering, I work with HTML, CSS, JS, React.

Core Skills:

- JAVA
- C/C++
- Python
- HTML/CSS

- Problem Solving
- Data Structures
- Algorithm Analysis
- VCS

- JS
- React
- Parallel Programming

- Calculus
- Linear Algebra
- Statistics

Education and Qualifications:

Bachelor's degree in computer science – American University of Beirut (2026)
Minor in Mathematics – American University of Beirut (2026)
Certificate in Ethical Hacking – Semicolon Academy (2024)

Programming Experience:

Solved programming exercises and built programs applying concepts of data structures including maps, sets, trees, lists, and graphs. Built a calculator using GUI, hangman game, university data system design, task manager, phonebook, tower of Hanoi, patient queuing system, and hashing exercises.

Applied theoretical concepts of OOP and data structures on real-life problems including building systems for hospitals, managing file systems, accounting-system, recursion in stacks and queues, and directory structure of an operating system. I developed efficient programs in these fields taking care of runtime efficiency.

Moreover, I worked with a team on a project (Battleship game but with extra features) with the option of playing versus another player or playing versus a bot. I'm currently working with a team on a software engineering project, which is a model that predicts the best plants to grow in a specific area based on several factors including geographic and chemical levels in a certain area.

Links:

LinkedIn: www.linkedin.com/in/ali-mohsen-a5819b209

GitHub repository: https://github.com/amoh909/Ali-Mohsen