Mohammad Ghanayem

0528942919 [mohammad.gh454@gmail.com](mailto:mohammad.gh454@gmail.com) [LinkedIn](https://www.linkedin.com/in/mohammad-ghanayem-2a27511ba/%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20) [GitHub](https://github.com/MohammadKhGh99)  
**Education:**

2018 – Present: B.Sc. – **Computer Science (78)** – the Hebrew University of Jerusalem. (1 semester left)

**Relevant Courses:**

* Introduction to Computer Science (85)
* Introduction to OOP (82)
* Coding Workshop in C & C++ (82)
* Computer Construction Workshop from Nand to Tetris (Assembly, VM) (83)
* Data Structures (80)
* Operating systems (81)
* Software Engineering (95)
* Databases (80)

08/2021 – 09/2021: **Python DeepDive Course** – JohnBryce.

Python Web and GUI development, multitasking(threads), OOP.

08/2022 – 10/2022: **FullStack BootCamp** – SQLabs.

JavaScript, HTML5, CSS3, Web Applications, Node.js, Git, GitHub, Typescript, SQL, React.

**Academic Projects:**

* **4 in row Game (01/2019 - 01/2019) -** [**4 In Row Game**](https://github.com/MohammadKhGh99/IntroToCS-67101/tree/master/ex12)In "Introduction to Computer Science" Course (Python), we have been asked to build a "4 in row" game from the bottom up without any helping function or packages. I have created the GUI on my own using the Tkinter library. I have made Human vs Human mode and Human vs Computer mode, my idea was different from the other students' ideas, they have difficulty with the interaction with the GUI and mouse, but I did it. I got 6 points as a bonus for my design and great-looking game. (Final Grade 206/208)
* **Simplified Java Verifier (01/2020 - 02/2020) -** [**Simplified Java Verifier**](https://github.com/MohammadKhGh99/OOP-67125/tree/master/ex6)In "Introduction to OOP" Course (Java), We have been asked to build a verifier for Java code. We had to check if the code is valid and fulfills the laws of Java coding, like the structure of the while statement. The techniques that I used are mainly Regex, Classes, and Exceptions, they really helped me with this assignment. (Final Grade 92/100)
* **from NAND to Tetris (08/2020 - 09/2020) -** [**from Nand to Tetris**](https://github.com/MohammadKhGh99/NandToTetris-67926)In "Computer Construction Workshop" Course (Python), We have been asked to build an assembly, VM, and Jack compilers, and in the end, we built a simple OS for hack computer.
* **Patients Data (08/2021 - Present)**This is my first own project, its idea was to help private therapists to save their patients' data in a program, this will ease their saving and retrieving of patients' data.
* **Nonogram Solver (08/2022 - 09/2022) -** [**Nonogram Solver**](https://github.com/MohammadKhGh99/AI-Project)This project was part of the AI Course. We made some agents to solve this game with several algorithms like DFS and CSP with its heuristics like MRV and AC, in addition of these algorithms we made a fancy GUI to enhance the experience of the user.

**Experience:**

**03/2022 – 09/2022: Teaching Assistant, the Unit for Equal opportunities in the Hebrew University of Jerusalem.**

In this role I was helping students in “Introduction to CS” course (Python), how to solve exercises, how to study for exams in an efficient way, this course includes the first step skills for a CS student like Loops, Time Complexity, Recursion, OOP, etc.

**Technical Skills:** Python, Java, C, C++, SQL, Git, HTML, JavaScript, Linux, Windows.

**Languages*:*** Arabic – mother tongue, Hebrew – advanced, English – advanced