



# Omar Hussein Omar

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computer engineering student with strong technical and problem-solving skills. Seeking an internship/full-time position to apply knowledge in software development, algorithms, and emerging technologies while contributing to innovative projects.

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## Education

Bachelor of computer engineering.

Beirut Arab university, Lebanon, Debbieh

Expected graduation: May 2026.

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## Technical Skills

- Programming Languages: [Python, C++, Java]
  - Tools & Technologies: [Raspberry Pi, Wokwi, MATLAB, Microsoft office]
  - Specialized Skills: [ Machine Learning, Algorithms]
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## Projects:

### Hand Recognition System (C)

- Designed and implemented a system to recognize hand gestures using C programming.
- Applied algorithms to detect and differentiate gestures for potential use in accessibility solutions.

### Bank Management System (Python)

- Developed a basic bank management system using Python and Tkinter for the GUI.
- Implemented core functionalities such as customer registration, account management, transactions...
- Utilized file system handling with text files as the database.

### CPU Fan Control System (Assembly Language)

- Built a fan control system for CPUs to optimize cooling and performance.
- Programmed using low-level assembly to ensure precise hardware control.

### **Handwritten Digit Recognition (CNN)**

- Utilized deep learning libraries TensorFlow and Keras for building and training the CNN model.
- Employed Pandas for efficient data manipulation and Seaborn for visualizing the data.
- Leveraged NumPy for numerical computations and Matplotlib for graph plotting.

### **Breakout Game ( java using Processing )**

- Developed a breakout game using Processing with Java and object-oriented programming.
- Designed interactive features including a paddle, bricks, and a ball.
- Implemented collision detection and response mechanisms.
- Included multiple levels for increasing difficulty

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### **Languages:**

**Arabic:** Native Language

**English:** Intermediate; good in speaking and understanding