

# Mostafa Hassan

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## Education

**Ain Shams University** – BS in Computer Sciences 2020 – 2024 (expected)

- GPA: 3.44/4.00

**Information Technology Institute (ITI)** – Certificate in Full Stack Web Development 7/2023 – 8/2023

- Technologies: HTML, CSS, JS, PostgreSQL, Python, Django

## Experience

**Software Engineer Trainee**, Siemens EDA – Cairo, Egypt 9/2023 – 2/2024

- Participated in the Software Engineering Diploma offered by Siemens Software Academy.
- Gained experience in Software Design and Software Development Life Cycle.
- Collaborated in the development of a tool to automate the debugging processes using Python, PyQt and Jenkins.

**Machine Learning Intern**, National Authority for Remote Sensing and Space Sciences – Cairo, Egypt  
8/2023 – 9/2023

- Implemented YOLOv3 object detection for real-time people counting in indoor spaces.
- Developed a web-based monitoring solution utilizing Python and Django, integrating GIS functionalities to enhance its capabilities.

## Projects

### I Hear (in progress)

- A smartwatch-based deep learning application to sense, classify, and provide feedback about sounds occurring in the environment. to provide real-time sound awareness to people who are deaf or hard of hearing.

### FCIS Operating System

- Implementation of a CLI-based operating system targeting i386 CPU and x86 architecture with multiple dynamic memory allocation algorithms, Semaphores, fault handling, multithreading and support for custom user programs
- Technologies: C, (qemu-i386, Bochs VMs), GCC cross compiler toolchain, Makefiles, Assembly

### Egyptian Vaccine Tracker

- Description: Egyptian Vaccine Tracking System using OOP and Data structures concepts. That allows the users to enter their personal and vaccination information and lets the administrator calculate basic statistics to draw insights from this data.
- Technologies: C++, Python, Visual Studio, Spyder IDE, Microsoft Excel

## TECHNICAL SKILLS

**Programming Languages:** C, C++, C#, Java, Scala, Python, JavaScript, HTML, CSS, SQL, R

**Tools:** Oracle SQL Developer, Microsoft SQL Server, Google Colab notebooks, Git, GitHub

**Technologies:** Android, Node.js, MongoDB, Typescript, Angular, React.js, PostgreSQL

## Languages

**Arabic:** Native Speaker.

**English:** Excellent written/spoken.