

# MOHAMED ESMAT

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**Military Status:** Finished

## EDUCATION

### Helwan University – Bachelor of Science

Master In IOT

Major: CS and Statistics

Cairo, EG

2023 – Now

2019 – 2023

## GRADUATION PROJECT

### Smart Attendance by Facial Recognition Desktop Application (Python) – Grade A+

- Implemented a program that takes automatic attendance for students.
- Used Tensorflow for the machine learning model.
- used pandas library to export the attendance data to an excel sheet for ease of post-processing.
- The program has two use case scenarios one for students (guest) and one for the teacher. (admin)
- Used a Python Tkinter GUI.
- Used SQL for DB management.

## EXPERIENCES

### Freelance Web Developer

Oct. 2024 – Present

- Provide freelance web development services, including creating responsive websites, front-end development, and e-commerce solutions.
- Utilize technologies like HTML, CSS, JavaScript, and React to deliver high-quality, user-friendly websites for clients.
- Collaborate with clients to understand project requirements, ensuring timely delivery and satisfaction.

### Military Service | Soldier in Electronic Warfare Unit

Oct. 2023 – Dec. 2024

- Served as a soldier in the Electronic Warfare Unit, contributing to national defense efforts through technical support, system maintenance, and cybersecurity initiatives.

## COURSES

### Complete Web Development Bootcamp – Angela Yu (Udemy)

May 2024 – Sep 2024

- \* Completed an extensive web development bootcamp covering full-stack technologies such as HTML, CSS, JavaScript, Node.js, Express, MongoDB, and more.
- \* Built and deployed multiple full-stack applications, gaining hands-on experience in both front-end and back-end development.
- \* Learned advanced web development concepts, including APIs, authentication, and integrating third-party libraries and frameworks into projects.

## SKILLS

- \* **Data Visualization:** Power BI, Tableau, Excel, Interactive Dashboards, Data Storytelling, KPI Metrics.
- \* **Programming Languages:** Python (Pandas, NumPy, Matplotlib, Seaborn), SQL, R.
- \* **Data Analysis and Numerical Computation:** Experienced in performing data analysis and numerical computations using Python (NumPy, Pandas), R, and Excel.
- \* **Tools and Technologies:** Microsoft Excel (Advanced), Power Query, Google Sheets, Git
- \* **Communication :** Strong ability to explain complex concepts clearly and effectively.
- \* **Web Technologies:** Skilled in creating responsive web designs using HTML, CSS, Bootstrap, and Tailwind CSS, with a solid understanding of Flexbox and grid layouts.
- \* **Front-End Development:** Competent in building dynamic front-end applications using React's component-based architecture and server-side rendering with EJS.
- \* **Database Management:** Experienced with SQL and PostgreSQL for creating and managing relational databases.

## PROJECTS

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### **Statistical Analysis with R**

- \* Performed statistical analysis on a dataset to identify trends and insights using R.
- \* Used libraries such as ggplot2 for data visualization and dplyr for data manipulation.
- \* Applied various statistical techniques like regression analysis and hypothesis testing to derive conclusions.

### **Car License Plate Detection**

- \* Developed a car license plate detection system using MATLAB, utilizing image processing techniques to accurately identify and extract license plates from vehicle images.
- \* Optimized the program for real-time processing, allowing it to be used in applications like traffic monitoring or parking systems.

### **NFT Creation and Marketplace**

- \* Built a marketplace that the users can use to show, sell, buy NFTs, through smart contracts.
- \* Built a user-friendly front-end interface for seamless interaction, integrating wallet connectivity and real-time transaction tracking..
- \* Used React, Node.js, for the front end and back end development.

## LANGUAGES

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- \* Arabic: Native
- \* English: Very good