

MAHMOUD MOHAMED YOUSEF

PYTHON SOFTWARE ENGINEER

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Python Software Engineer

Seeking a position as a Software Engineer to follow my passion and advance my career, knowledge and skills.

EDUCATION

Bachelor's Degree Computer Science and Information Technology (2023).
Zagazig University (Grade :Very Good).

Graduation Project:

Title: Neurological Disease Diagnostic System Using Artificial Intelligence

Graduation Project Grade: Excellent.

Description: a device that measures the nerve signals of the brain and the rest of the body, by using

- **Artificial Intelligence (AI) to predict the occurrence of convulsions during a coma and**
- **Mobile Application that allows the user to communicate with the doctor remotely.**

INTERNSHIPS EXPERIENCE

- I Win first place in the Egypt Rally for Entrepreneurship competition 2023
- I Win of the first place in the creativity competition for scientific innovations 2023
- I Win third place in the Egypt IOT competition over 200 projects 2023
- I Win the 32nd place in the pinch competition with Lamees Al-Hadidi 2023
- I Win the Seventh Cairo Innovation Exhibition Award 2023
- TECHNICAL MEDICAL PROGRAMMING.

COURSES

➤ **Machine learning nanodegree 31.5 hours**

- Use Python for data science and machine learning.
- Implementing machine learning algorithms.
- Entrepreneurship using artificial intelligence.
- How to create a virtual work environment to qualify for the labor market.
- Analytical mindset.
- Learn the NumPy for Numerical Data.
- Learn the Pandas for Data Analysis.
- Using the SciKit-Learn for Machine Learning Tasks.
- K-Means Clustering
- Logistic Regression
- Random Forest and Decision Trees
- Linear Regression
- Neural Networks
- Support Vector Machines

➤ **A comprehensive guide to learning programming in Python from scratch, with examples and ways to solve all the problems that beginners encounter 9 total hours**

- what programming means
- the history of the Python programming language
- why we learn Python
- installing the language on our devices
- what Variables means
- What are the conditions, and we will see examples of them: If-Conditions
- What are loops in Python? We will see more than one example of them: Loops - Break – Continue
- what functions in Python mean. Functions - Arguments - Local VS Global
- what Data Types (Strings - Lists - Tuples - Dictionary) means.
- what OOP means
- what it means. Everything is object
- what Class means and how we can create our own Class
- what Encapsulation means and how to use it
- what Method means, what Attribute means, and what is the difference between them
- what Constructor means
- the difference between Class Based and Instance Based
- what Inheritance or inheritance means, and how can I do Inheritance from more than one class?
- what Polymorphism means
- what Constructor Inheritance or Super means
- how many illustrative examples for each part
- What does Module mean in Python?
- How can I deal with external modules - install them on my device
- How can I deal with some internal modules such as the OS Module and Date time Module?
- some examples of everything we studied in the course

➤ **Intro to TensorFlow for Deep Learning**

- Dive into deep learning with this practical course on TensorFlow and the Keras API. Gain an intuitive understanding of neural networks without the dense jargon. Learn to build, train, and optimize your own networks using TensorFlow. The course also introduces transfer learning, leveraging pre-trained models for enhanced performance. Designed for swift proficiency, this course prioritizes hands-on learning and real-world applications.

➤ **Many playlists on YouTube in the field of deep learning, Python , Django , and more , such as html & css .**

- **Learn how to Add Dynamic Client-Side Functions to your Web Pages using CSS & JavaScript**
 - Parts of a CSS Rule
 - Types of CSS Rules
 - CSS Classes, Spans, IDs, Divisions
 - CSS Margins, Padding, Text Properties, Font Properties, Borders
 - CSS Backgrounds, Transparency
 - CSS Positioning - Static, Relative, Absolute, Fixed, Float, Clear
 - CSS Link Styling, Z-Index, Tables
 - Responsive Web Page Design using CSS
 - JavaScript Placement
 - JavaScript Variables, Constants, Arithmetic Operators
 - Operator Precedence, Data Types, Objects
 - JavaScript Functions, Arrays, Array Attributes
 - JavaScript Loops (For, For-In, While, Do-While)

- **A complete path to learning Python, the basics of website design and website programming with Python 40 hours**
 - Python basics
 - Basics of dealing with Git & Github
 - Object-oriented programming in Python
 - Dealing with internal and external libraries in Python
 - Basics of website design using Html, Css, Bootstrap 5
 - Basics of website programming in Django
 - Explanation of some advanced topics in Django
 - Deploy the site and buy a domain
 - Programming a complete website similar to Airbnb

PROJECTS

- **Machine Learning projects :**
 - Create a program that predicts whether the news is true or fake and train it using Fact dataset .
 - Create a program that predicts house prices based on the area of the house and the surrounding area .
- **Deep Learning projects :**
 - Designing and training neural networks to classify handwritten digits using the well-known MNIST dataset.
 - object detection to detect the age and gender of the person in the photo, and not just a photo, but via video.
- **Django projects :**
 - A site similar to **Airbnb** that contains many features, such as viewing and booking rooms, adding a rating for this room, and filtering rooms by place or by category , also adding users, creating a profile for each user in which his reservations are displayed, and also adding his own rooms for rent.
 - Create a personal (**Portfolio**) website in which all information is displayed instead of a CV, and all information is displayed through the backend of the website.
 - Create an electronic store website (**E Commerce**) in which the products are displayed, add these products to the cart, create a checkout page to take the user's information, choose the

payment method, whether online or upon receipt, also add reviews for the products and display them, add user's, and create each user's own profile to display the favorite products and the dashboard that The orders and details of these orders are displayed.

- Create another online store and add many features to it, such as filtering products by color, size, price, or category , and adding a professional home page.
- Create a website to add notes, add details of these notes, their pictures, and tags, and also add users to the site, and create a profile for each user in which his notes are displayed.
- Create a **movie** site similar to the **Akwam** site in which movies, series, and anything else are displayed. Create a search engine to search for movies and also create a filter to filter the movie by language or category, whether it is action, drama, etc., or by time period, and also add the tags for each movie , and find the movie by tags and category.

PROFESSIONAL SKILLS

-html & css	-python/java	-programming.	-python for ai and data science.	-Data structure.
-OOP	-django	-Debug and Trace.	-Parallel programming..	-cloud computing.
-Assembly	-git & github	-unit testing.	-java script	-celery
-docker	-ajax	-deep learning	-tensorflow	-bootstrap

LANGUAGE COMPETENCIES

- English: very good(Speaking, Reading, Writing)
- Arabic: Native language.
- Good Speaker Presentation Skills