

Hashem Muhammed

Python Developer

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EDUCATION

ITI Graduate

Information Technology Institute
03/2023 – 06/2023
Full Stack Web Development - Python

Bachelor of Computer Science

Computer Science and Artificial Intelligence
Helwan University
2017 – 2021
GPA: 3.07/4

SKILLS

Programming Languages (Python, Java, C)

Front-end (Javascript, JQuery, ReactJS, Redux, HTML, CSS, Bootstrap)

Back-end (Django, django-rest, Flask, Odoo)

Version Control (Git)

Open Source (Linux, Bash-Script)

Database (PostgreSQL, MySQL, Oracle)

Other (OOP, MVC and MVT Architecture, Problem Solving, Computer Vision, NLP)

PROJECTS

- Beauty Alert (Graduation Project)

I utilized **CNN** and **Transfer Learning** techniques, specifically **MobileNet**, to develop an AI model with 91.4% accuracy. The model analyzes the user's face image to detect skin problems, if any, and suggests personalized skincare and haircare routines. The model is integrated with the system through an API developed using **Flask**.

- Tech Blog

A social media blog website was built using **Django**, along with the Django **ORM** for database operations. Django's built-in user model and authentication system were used for user management, and Django's permissions system for authorization to ensure that only authorized users could perform actions on the website.

- Stack Overflow Assistance

I used the **Rasa** library, **RegEx**, **NLP/NLU**, and **text classification** techniques to interpret user messages and extract necessary information. The chatbot integrates with the Stack Overflow API to retrieve the most voted answers for the user's problem.

- Doctors Hand

Utilizing **Python** libraries such as SpeechRecognition and PyAudio for voice recognition, and Tkinter for GUI, In addition to **MySQL** for database management I built an app that automates the whole medical report writing process and sending it as pdf to the patient email using **smtplib**.

- Database Management System (DBMS)

I developed DBMS using **Bash scripting** for managing databases through normal commands such as:

- Listing, creating, and dropping databases and tables.
- Inserting, updating, and deleting rows.
- Selecting specific data from tables.

- Crowd Funding

A desktop application built in Python using binary files as a database and applying OOP concepts to create a flexible and modular system for starting fundraising projects with an authentication system.

- Plant E-Commerce

I used **ReactJS** and **Bootstrap** for creating a fast and responsive user interface along with **Redux** for state management. The website was fully functional and integrated with a JSON server API, providing real-time updates, with an admin panel to CRUD over the website.