

Mohamed Hashem Youssef

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Education

2016 - 2020 Bachelor of Computer Science , Ain Shams University .
Accumulated Grade : Very Good .
Graduation Project : Image Based Diagnosis Disease .

Experience

May 2019 - May 2020 Backend Developer at Algawhar .
January 2022 - March 2022 Smart Cards Applications .

Technical Projects

- **Image Based Diagnosis Disease** : As a part of my study of backend , I had designed backend server using Python (django) designed API to call Machine & Deep Learning models and designed database tables to store data using Django ORM , designed one of deep learning models using keras & CNN .
- **Map Routing (GIS)** : As a part of my study of Algorithm , I had designed an algorithm using java programming language , Dijkstra algorithm to find shortest path i had built algorithm to find shortest path between two nodes through calculating distances by it's location on map and find the best path with best cost to reach from node to another node .
- **Maze 2D Graph** : As a part of my study of AI , I had designed an algorithm using Python , Dijkstra , A* algorithm to solve Maze through draw a maze in real time and the algorithm find solution to solve the maze with shortest path to solve it .
- **Author Detector** : As a part of my study of NLP , I had designed script using python to find the author of an article through learning from data which i had and expect when enter new article who wrote this new article.
- **Heart Disease Diagnosis**: As a part of my study on Machine & Deep Learning ,I had built a jupyter notebook using Python to detect heart diagnosis and predict if person have heart disease or not .
- **Brain Tumor Diagnosis**: As a part of my study on Machine & Deep Learning ,I had built a jupyter notebook using Python to detect brain tumor diagnosis and predict if person have brain tumor disease or not .
- **Web Crawler** : As a part of my study of Network , i had built a small crawler using python (Scrapy) to crawl data from web sites and store it in my database .
- **Face Detection** : As a part of my study of Image processing , i had built a script using (Open CV) to detect people face and know who is .
- **Hammouda Clinic** : As a part of my study of web development , i had designed a website for doctor hammouda using Python (Django) .
- **Onethouch furniture** : As a part of my study of web development , i had designed a website for furniture office using Python (Django) .
- **Security Code** : As a part of my study of Security , I had designed an algorithms using C# to encrypt and decrypt messages using (AES ,) algorithm .

- **ASM Networking** : As a part of my study of assembly , i had built a project to encrypt and decrypt messages using assembly (8086) .
- **OS** : As a part of my study of operating systems , i had built a small OS interact with that through terminal built using C programming language .
- **Interact with huge number of transactions in fintech area** : using node js & rpc & redis & rabbit MQ .
- **Build Monitoring System to monitor failed and successful transactions** .

Trainings/Courses

Backend development (Node js) , Udemy

Frontend development (React , Vue) , Udemy

Machine Learning (Andrew Ng) , Coursera

Data Science Track , DataCamp

Advanced Data structure & Algorithm , MIT

Deep Learning , MIT

Java , Database , Python , C , Javascript , Youtube

Skills

Technical Skills :

- C/C++/Java/Python/JavaScript/Node
- Image Processing , Machine & Deep Learning
- DataStructure , Algorithm , OOP , Problem Solving
- Git , Ubuntu
- SQL , NoSQL Database , Redis database , Graph database (Neo4j)
- Assembly (8086)
- Microservices
- Docker
- React & React Native

Extracurricular Activities

- Problem Solving Coach at Thebes Academy
- OSC Community member (backend developer)
- Robotech Community member (Algorithm Engineer)
- AUG Community member (Algorithm Engineer)

Competitions

- Ecpc 2017 & 2018 & 2019
- Google Code Jam 2016 & 2017 & 2018 & 2019 & 2020
- Code Chef Hackathon
- Google HashCode 2022
- Coach ACPC 2020