Michael Farid

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⬡ Michael-faried   in Michael Farid

🎓 EDUCATION

2019 − 2023 Cairo, Egypt	**Bachelor of Computer Science in information Systems Ain Shams University** • **GPA : 3.2 (Very Good)** • **Graduation Project : A (Excellent)**

🧩 EXPERIENCE

Problem Solver | ACM ACSIS
- Solving High Level Challenges in C++, Java, and Python Programming Languages
- Solving Problems in the Field of Pointers, Stacks, Data Structures, and Algorithms

Web Development Summer Training (FCIS WEB)
Experience in building dynamic websites using HTML, CSS, JavaScript, React, Node.js, and Express.js

🏅 COURSES & CERTIFICATES

Machine Learning certificate (HCIA-AI) Huawei. ↗
Innovative AI tech, full-stack strategy, and ML & DL algorithms

Google Data Analytics Professional Certificate ↗
Data Manipulation and Cleaning using R, Spreadsheets, Tableau, SQL,

Python for Machine Learning ↗
Python Fundamentals - Numpy - Pandas

Data Analysis With Python ↗
Demographic Data Analyzer - Medical Data Visualizer - Page - View Time Series Visualizer - Sea Level Predictor

IBM Python for Data Science, AI & Development
 Python critical data structures, programming fundamentals and experience with core libraries for data science.

SQL for Data Analysis (udacity)
 covering querying & subqueries, joining tables, aggregating data, cleaning data, and advanced topics like window functions, advanced joins, and performance tuning.

SQL Golden Badge Hackerrank ↗

📁 PROJECTS

TureTrace (Graduation Project : A) ⧉
product identification system that utilises Blockchain technology to Design a system that prevents the purchase of counterfeit products, secures product details via a QR code, and helps companies identify the faked products.
- JavaScript ,React.js ,Bootstrap ,MetaMask.
- Truffle Framework , Web3.js , Node.js , Solidity

Social Networks Analysis Tool (GUI) ⧉
This tool provides community detection using the Louvain algorithm and evaluation metrics such as Conductance, modularity, NMI, and community coverage. Also offers link analysis techniques as PageRank and filtering nodes based on degree, closeness, betweenness, harmonic centralities.
- Python, Tkinter (GUI library)

Gender Classification ⧉
preprocess data, implement deep learning models for gender classification of images, and optimize neural network layers to avoid overfitting or underfitting.
- Python, Jupyter Notebook

N-Puzzle Algorithm ⧉
- in n-puzzle game, rearrange tiles with a* search using Manhattan and hamming distance. implement lru list to manage page file.
- Using LRU list to manage Page File
- Calculated Manhattan & Hamming Distance

OWASP-IMMUNE-WEB-APPLICATION ⧉
Create secure web app, prevent OWASP top 10 2021 vulnerabilities using login systems, encryption, protection against injections, and two-factor authentication.
- Node.js, JavaScript, EJS, Handlebars

FOS Kernal Project (Console OS) ⧉
- Working Sets & LRU with System Calls
- Heap Allocation with Fault Handler

HTTP Server (Browser Client Handler) ⧉
- Handling Client and Server Requests
- used Multi-threaded Server

🧩 LANGUAGES & TECHNOLOGIES

- **C , C++ , C# , Java , JavaScript , PHP , Python**
- **R , MATLAB , SQLite , MySQL , Firebase**
- **HTML5 , CSS3 , React , jQuery , Bootstrap**
- **.NET Framework , Node.js , Express , MVC with C#**
- **Git , AWS , Oracle , Visual Studio Code , MongoDB , Docker , Unix , Web3**
- **Problem Solving - OOP - Data Structure - Algorithms - Design Pattern - Linear Algebra**
- **Data Manipulation(Visualization & Cleaning & Wrangling & Preprocessing.)**
- **Pandas - Numpy - Mircrsoft Excel - Power BI -Machine Learning - scikit-learn.**