Asmaa Omar Refaat

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Profile

I'm a passionate computer science student, I'm always eager to learn new skills and technologies.

Education

- Faculty of Computers and Artificial intelligence, Cairo University
- 2020 - 2024
- Information System Department
- GPA: 3.23 “Very Good”

Language

- Arabic (Native)
- English (Intermediate)

Skills

- TeamWork
- Programming Languages (C++, Java, JavaScript, Python, PHP)
- HTML, CSS
- Algorithms and Data structures
- OOP
- Design patterns and SOLID principles
- SQL
- Django Framework
- Laravel Framework
- GitHub
- Machine Learning

Projects

- Student Affairs System

Web application provides several functionalities like Add student, delete student, search student, update student information and other functionalities

- the main pages built using HTML, CSS
- Backend functions written using python (Django Framework)
- Client-side validations done using JavaScript

- Parking Garage Application

This application manages a parking space for a configurable maximum number of vehicles. Each parking space (slot) defined with a dimension (Width and depth)
It's designed using UML Diagrams and built using java using a console UI

- Memory management

Memory allocation simulator to allocate variable-sized partitions of the memory to a given sequence of processes requests. Apply different allocation policies (First-Fit, Best Fit, Worst-Fit) And compaction algorithm to place all free memory together in one large block it's built using java

- Medical Insurance Prediction

A machine learning project that predicts medical insurance costs based on a range of factors. The project uses several machine learning models, including linear regression and random forest regression, to predict medical insurance costs based on factors such as age, gender, BMI, and smoking status. The best-performing model achieved an R-squared score of 0.84 on the test set, indicating a strong correlation between the predicted and actual insurance costs.

- Please check out more of my projects on my GitHub Profile.