Mohamed Gomaa Mohamed

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SUMMARY

I'm a Computer Science student at Assiut University. I love creating eective soware solutions. I've learned a lot about building websites, algorithms, and designing systems. I'm good at writing strong, fast code, and I'm always learning more. I work well in teams and am good at solving problems.

EXPERIENCE

Software Engineer Program
ALX   June 2022 - June 2024，Africa | Egypt

• ALX Software Engineer program transformed my skills, fostering a growth mindset and preparing me for real-world challenges in software development.

PROJECTS

Hospital Management System
Assiut University • https://github.com/mo7amedgom3a/Hospital_Management_System   • September 2023 -December 2023

• Led the development of the Hospital Management System, creating foundational components and key features. Developed model classes ensuring an efficient and cohesive data structure. Designed and optimized the database architecture for seamless integration. Created a user-friendly patient page for managing records and appointments. Implemented a statistics page for data visualizations, enhancing system functionality.

Simple Shell
ALX (Soware Engineer Programming) • https://github.com/mo7amedgom3a/simple_shell   • February 2023 - March 2023

• The shell lets users enter Unix-like commands, supporting both internal and external commands. It executes system commands, enabling users to run various programs directly. Efficient process management allows background and foreground execution, enhancing usability. Robust error handling ensures graceful resolution of unexpected scenarios with clear and informative error messages.

Data Structures Simple Book for beginners
https://github.com/mo7amedgom3a/data_structure

• "Data Structures: Design and Implementation" is a guide covering principles and practical implementation of key data structures. Ideal for beginners and experienced developers, it explains fundamental concepts and design strategies. The book features clear explanations, a problem-solving approach, and hands-on learning with detailed C code examples for each data structure.

Printf
ALX (Soware Engineer Program) • https://github.com/mo7amedgom3a/printf   • November 2022 - December 2022

• The custom printf function supports versatile formatting with placeholders for integers, floats, characters, and strings. Efficiently handling variable arguments, it allows users to pass a flexible list for formatting. Robust error handling ensures graceful resolution of format specifier mismatches and potential errors during runtime.

EDUCATION

Bachelor of Computer Science
Assiut University • Assiut • 2024 • 3.3 GPA

SKILLS

Low-level: C, C++, C#, Data Structure and Algorithms, OOP, DataBase, Operating system, Network
Higher-Level: Html, Css, JavaScript, Python, .NET Core(MVC), MySql