Youssef Sherif

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Profile

As a 3rd-year computer science student passionate about software development, I possess a robust foundation in computer science, particularly in data structures and algorithms. Proficient in Java, C++, and C#, I am eager to contribute and learn in dynamic environments.

Skills

- C++
- Java
- C#
- Object-Oriented Programming (OOP)

- MSSQL
- Data Structure
- Algorithms
- Problem Solving
- Git & GitHub

Experience

Software Development Intern   **Prodigy InfoTech**   01/2024 - 02/2024

- Accepted an offer for a one-month educational internship at Prodigy InfoTech
- Tasks to be undertaken include:
  - Building a Temperature Conversion Program
  - Creating a Guessing Game,
  - Implementing a Simple Contact Management System,
  - Developing a Sudoku Solver
  - Web Scraping for product information

Projects

- **Bank Management System:** developed a C++ program for a basic banking system, incorporating features such as account creation, login, deposit, and withdrawal. Utilized file I/O for data persistence and applied basic data structures to manage accounts efficiently. Implemented the project as a personal initiative to enhance coding and software development skills.

- **Courier Routing System using Dijkstra's Algorithm**: Implemented a Courier Routing System utilizing Dijkstra's Algorithm. Designed to optimize the route planning for courier deliveries, ensuring efficient navigation. The project aimed to enhance understanding and practical application of graph algorithms in real-world scenarios.

- **Chat Application (Socket Programming RMI):** Developed a Chat Application using socket programming and Remote Method Invocation (RMI). This project facilitates communication between client machines and a server database, showcasing proficiency in networking and distributed systems.

- **World Cup Highlights:** Developed a Java GUI application using IntelliJ for managing World Cup videos. Implemented functionalities for adding, deleting, and editing videos, including relevant information such as name, link, and category. Enabled sorting videos in ascending or descending order and provided the option to open them in a media player. Implemented data structure concepts for efficient storage and retrieval of video information.

- **First Fit Memory Allocation Algorithm:** Implemented the First Fit memory allocation algorithm, a fundamental technique in operating systems for allocating memory blocks. This algorithm assigns the first available block of memory that is large enough to accommodate a process.

Education

Bachelor's Degree   **Modern Academy Maddi**   2021 - 2025

- Major in Computer Science

Achievements

- **Participated** in the 2022 & 2023 Egyptian Collegiate Programming Contest.
- **16**th place in the semicolon shows IEEE Al-Azhar University.
- **A problem-solving technical support to the ICPC Community**