Omar Ahmed Hafez

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Summary

I am a skilled programmer with strong abilities in Problem-Solving, Algorithms, Data Structure, Mathematics and Computer Science in general. I work as a technical demonstrator in the faculty of communication and electronics engineering to share my knowledge and skills with students.

Education

B.E. Of Electronics and communications engineering,   Sep. 2018 – Aug. 2023
Mansoura college academy, Mansoura, Egypt
- **GPA: 3.88/4** (Top of my class).

Skills

- **Programming Languages:** Java, C++, C#, Python, JavaScript
- **Hands-on Experience**: Basics of Object-Oriented Design (OOD), Bootstrap, HTML, CSS
- **Concepts**: Linux, Problem Solving, Data Structures, Algorithms, Object-Oriented Programming (OOP), SOLID principles, Databases, SQL, Git
- **Problem Solving:**
  - 2x ECPC Finalist
  - Solved 1000+ problems on different online judges (Like Codeforeces, Atcoder, Leetcode, HackerRank, UVA online Judge, And proectEuler.net)
  - Specialist at codeforces.com with contest rating 1410
  - Participated in Google Code Jam 2022 and Qualified to Round 1
  - Achieved a top 10 ranking in Egypt on Project Euler (projecteuler.net) by solving numerous complex mathematical, Algorithmic, and computational problems, demonstrating advanced problem-solving and algorithmic skills.
- **Languages:** Arabic (Native), English (Very good).

Personal Projects

- Competitive Programming Tool: Open-Source Desktop Project (Linux and Windows) That Compile and run the solution of competitive programmers and test it against some test cases. It also submits the solution automatically from the app itself and load the result of submission in the app. (Used by **600+** users around the world till now).
  Using: Java, Java swing and Java selenium web driver.
- Optical Fiber System Designer: Desktop app that takes the requirement in the required optical fiber system and the available components as input and design the system showing all required components and measurement in that system
  Using: C#, Windows Forms.
- Student Guide: Desktop app that shows some data for the students and calculates the GPA. And help the students to choose the classes and save the chosen classes in an excel file automatically.
  Using: C#

Additional Experience, Volunteering.

- **Founded and led the MCA ICPC (Competitive Programming Club)** at Mansoura College Academy for Engineering and Technology, teaching students from scratch in C++ programming, focusing on algorithms, data structures, and problem-solving. Mentored students to develop advanced programming skills and strategies for competitive programming competitions like ICPC.

- **Mentor at ICPC Mansoura University,** I have worked in preparing online programming content for students out there, Answering student's questions and problems there.