Omar Ahmed Hafez

omar.a.hafez.1@gmail.com | Mansoura, Egypt | +201012274320 | Github | Linkedin | Codeforces | Atcoder

Summary

Competitive programming problem solver (solved +1000 problems on different online judges) with high interest in discrete mathematics and passion to develop apps in general.

Education

BSc. Of Electronics and communications engineering,   Sep. 2018 – Aug. 2023
Mansoura college academy, Mansoura, Egypt
- **GPA: 3.88/4** (Ranked **2st**).

Achievements

- Participated in Google Code Jam 2022 and Qualified to Round 1   2022
- Solved **1000+** problems on different online judges.   2020 - present
  (Like codeforces, atcoder, hackerrank, UVA, projecteuler).
- **2nd** Place at **Code Against Time** from Mansoura Robotics.   2021
- Solved most of the math problems in discreate mathematics Rosen's   2020
  book.

Skills

- **Programming Languages:** Java, C++, C#, Assembly, Python
- **Concepts:** Problem Solving, Data Structure, Algorithms, OOP, Linux, Discrete Mathematics, Git, Microprocessors and Assembly.
- **Languages:** Arabic (Native), English (Very good).

Personal Projects

- Competitive Programming Tool: Desktop app (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 form the app itself and load the result of submission in the app. (Used by **600+** user around the world till now).
  Using: Java, Java swing and Java selenium web driver.
- Student Guide: Desktop app that shows some data for the students and calculate the GPA. And help the students to choose the classes and save the chosen classes in an excel file automatically.
  Using: C#

Courses, Books, Certifications

- CS50 from Harvard university.
- Data Structures and Algorithms Specialization. (by university of California San Diego and HSE university).
- Head First Object-Oriented Design & Analysis.
- Discrete mathematics and its applications by Kenneth .h Rosen. *(I solved most of the math problems in it)*
- Code by Charles Petzold.