Abd El-Twab M. Fakhry

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EDUCATION

• **\hat{\pi}** Faculty of Engineering, Al-Azhar University

Bachelor in Computer Engineering

Cairo, Egypt Sep. 2017 - Jun. 2022

Programming Contests Activity

- Solved +1000 algorithmic challenges on different online judges.
- Finalist at Africa & Arab Collegiate Programming Championship (2020).
- Finalist twice at Egyption Collegiate Programming Contest (2019, 2020).
- 3rd and 2nd palce at Al-Azhar Collegiate Programming Contest (2019, 2020).

EXPERIENCE & VOLUNTEERING

Al-Azhar ICPC Community

Cairo, Egypt

Mentor and Problem-setter

Feb. 2020 - Present

- Teaching Participants Algorithms topics, Data structures and Problem solving paradigms.
- Providing Multi-Level Training during the year.
- Writing Problems for weekly sheets and contests.
- Supporting Participants technically during sessions and online.

Selected Projects

• **L** Queueing ModelSim

Dec. 2020

- Implemented a software for the calculation of characteristics of different queues having the BMAP (batch Markovian Arrival Process) as an input.
- Implemented a deterministic queue model using prefix sum technique, helped to know the characteristics of the queue at any point of time.
- Tools: Python3, Tkinter (GUI Programming).

• Anthology of Algorithms and Data structures

Aug. 2020 - Present

- Implemented an open source library for Common Code for Competitive Programming in C++.
- Included Graph Theory, Problem Solving Paradigms, Mathematics, Computational Geometry, Game Theory, String Processing, Data Structures, more advanced topics and some helpful tools.
- ∘ Tools: C++, Bash.

TECHNICAL SKILLS

- Programming Languages: C/C++, Python, Java (SE, FX), SQL, IATEX, Bash/Shell.
- Tools & Technologies: Linux OS, Git, GNU Debugger, Emacs, Vim, Docker, SQLite.