

Abd El-Twab M. Fakhry

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EDUCATION

- **🏛 Faculty of Engineering, Al-Azhar University** Cairo, Egypt
Bachelor in Computer Engineering *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 *Egyptian Collegiate Programming Contest* (2019, 2020).
- 3rd and 2nd place 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

- **👥 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: Python, Tkinter (GUI Programming).
- **📖 Anthology of Algorithms and Data structures** *Aug. 2020 – Present*
 - Implementing an open source library for Common Code for Competitive Programming in C++.
 - Including Graph Theory, Problem-Solving Paradigms, Mathematics, Computational Geometry, Game Theory, String Processing, Data Structures, more advanced topics and some helpful tools.
 - Tools: C++.
- **🕌 Next Prayer** *Sep. 2021 – Present*
 - Implementing a prayer reminder for Linux status bars.
 - Using config file for setting the location to make *1 remote API / 6 years*.
 - Maintaining an AUR package for it.
 - Tools: C++, Bash, Python, Roff, Makefile.

TECHNICAL SKILLS

- **Programming Languages:** C/C++, Python, Java (SE), SQL, \LaTeX , Bash/Shell.
- **Tools & Technologies:** GNU/Linux, Git, GNU Debugger, Emacs, Vim, SQLite.