

# Abd El-Twab M. Fakhry

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🔗 [codeforces.com/profile/abd-et-twab](https://codeforces.com/profile/abd-et-twab)

## EDUCATION

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- **🏛 Faculty of Engineering, Al-Azhar University** Cairo, Egypt  
*Bachelor in Computer Engineering* Sep. 2017 – Jun. 2022

## PROGRAMMING CONTESTS ACTIVITY

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- 98<sup>th</sup> **Rank 2020** in The Africa & Arab Collegiate Programming Championship
- 45<sup>th</sup> **Rank 2020** and 116<sup>th</sup> **Rank 2019** in The Egyptian Collegiate Programming Contest
- 2<sup>nd</sup> **Rank 2020** and 3<sup>rd</sup> **Rank 2019** in The Al-Azhar University Collegiate Programming Contest
- 4<sup>th</sup> **Rank 2020** and 4<sup>th</sup> **Rank 2019** in IEEEExtreme 14.0 and 13.0

## EXPERIENCE

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- **Al-Azhar ICPC Community** Cairo, Egypt  
*Mentor and Problem-setter* Feb. 2020 - Present
  - **Writing Problems:** writing certain number of problems for weekly sheets and contests.
  - **Training:** Providing Multi-Level Training during the year; Teaching the participants Algorithms topics and Data Structures such as sorting, searching, graph theory and dynamic programming, Supporting Participants technically during sessions and online.
- *Logistician* Feb. 2020 - Present
  - **Events:** Managing and Booking every event.
  - **Training:** Providing and assure that all tools needed in training sessions are available (e.g. projector, white-board markers, etc...), as well as Providing yearly printed IDs and T-Shirts for all team members.

## PROJECTS

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- **👤 Queueing ModelSim** Dec. 2020
  - Implemented a software for the calculation of characteristics of different queues having the BMAP (batch Markovian Arrival Process) as a input, as well as the deterministic queues.
  - **Tools:** Python3, Tkinter(GUI Programming), matplotlib.
- **📖 Anthology of Algorithms and Data structures** Aug. 2020 – Present
  - Implemented an open source library for Common Code for Competitive Programming in C++ including Graph Theory, Dynamic Programming, Mathematics, Computational Geometry, String Processing, Data Structures and more advanced topics, which i've learned through my training.
  - **Tools:** C++

## PROGRAMMING SKILLS

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- **Programming Languages:** C/C++, Python, Java, Matlab/GNU Octave, Bash/Shell, Emacs Lisp.
- **Markup Languages:** L<sup>A</sup>T<sub>E</sub>X, Markdown, HTML, CSS.
- **Technologies & Tools:** Linux, Git, GNU Debugger (gdb), Emacs.