

# Abd El-Twab M. Fakhry

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## 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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- **The Africa & Arab Collegiate Programming Championship** Luxor, Egypt
  - 2020: Ranked 98<sup>th</sup>
- **The Egyptian Collegiate Programming Contest** Alexandria, Egypt
  - 2020: Ranked 45<sup>th</sup>
  - 2019: Ranked 116<sup>th</sup>
- **The Al-Azhar University Collegiate Programming Contest** Cairo, Egypt
  - 2020: Ranked 2<sup>nd</sup>
  - 2019: Ranked 3<sup>rd</sup>
- **IEEEEXtreme Competition** Online
  - 2020: Ranked 4<sup>th</sup> on Egypt
  - 2019: Ranked 4<sup>th</sup> on Egypt

## 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.