Abd El-Twab M. Fakhry

⌖ Cairo, Egypt   ✉ abdeltwab.m.fakhry@gmail.com   ⌂ github.com/abdeltwabmf

▢ (+20) 1127030951   in linkedin.com/in/abdeltwabmf   </> codeforces.com/profile/abd-et-twab

EDUCATION

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

PROGRAMMING CONTESTS ACTIVITY

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

EXPERIENCE

- **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

- 👥 **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
  - 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

- **Programming Languages**: C/C++, Python, Java, Matlab/GNU Octave, Bash/Shell, Emacs Lisp.

- **Markup Languages**: LaTeX, Markdown, HTML, XML, CSS.

- **Technologies & Tools**: Git, Gnu Debugger (gdb), Android Studio, Emacs, Linux.