

# Ahmad Abdulrahman Radwan

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## EDUCATION

### Faculty of Engineering, Al-Azhar University

Major in Systems and Computer Engineering

- Grade: Good.

Cairo, Egypt

Sep. 2017 – Jun. 2022

## PROBLEM SOLVING COMPETITIONS

- **Ranked 12th** on Egypt in Google HashCode 2021.
- **Finalist** and ranked 86th in Africa & Arab Collegiate Programming Contest (ACPC) 2020.
- **Ranked 42nd** in Egyptian Collegiate Programming Contest (ECPC) 2020.
- **Ranked 2nd** on Egypt in IEEEExtreme 14.0 Programming Competition.
- **Expert** on Codeforces, handle: [RetiredRadwan](#).

## EXPERIENCE & VOLUNTEERING

### Mentor & Problem-setter

AIC - Al-Azhar ICPC Community

Feb. 2020 – Present

Cairo, Egypt

- Teaching topics, popular algorithms and techniques of competitive programming (CP).
- Helping write problem-sets for weekly sheets and contests.
- Currently, online tutoring +45 students in AIC'21 Level 2 Training.
- Trained +60 students in AIC'20 Level 1 Training.

### Social Media Committee Head

AIC - Al-Azhar ICPC Community

Feb. 2020 – Present

Cairo, Egypt

- Using social media platforms to connect with trainees.
- Building and organizing the training step by step, publishing all content about CP & problem solving.

## PROJECTS & EDUCATIONAL CAMPS

### Notify Me | JavaScript, HTML

Jan. 2021

- Developed a full-stack web browser extension which notifies contestants when there are announcements on [VJudge OJ](#) running contests, instead of wasting time reloading pages and looking for them periodically.

### In The Queue, Please | Java, JavaFX GUI, CSS

Dec. 2020

- Implemented the Deterministic and Stochastic Models in Queuing Theory, including showing graph result (if exists for a model).

### Differentiation Lab | Java

May. 2019

- Implemented a calculator that allows you to solve first order and higher order derivatives of any function using Apache exp4j library, based on GUI.

### AIC'19 Level 1 & 2 Training | C++

Feb. 2019 – Aug. 2020

- In level 1 training, I solved problems in C++ basics, learned complexity analysis and practiced on basic techniques (Frequency array, Prefix and Partial sum, Binary search and two pointers) and linear and non-linear data structures (Stack, Queue, Deque, Set, Map, Linked-list).
- In level 2 training, I solved problems and practiced for the collegiate programming contests, accomplishing level 2 plan, contained techniques of (Recursion & Backtracking, Dynamic programming, Counting, Meet in the middle, Ternary search), Graphs, Advanced Math (Probability), String algorithms and Geometry algorithms.

## TECHNICAL SKILLS

**Languages:** C/C++, Java, Kotlin, Python, SQL, JavaScript, TypeScript, HTML/CSS.

**Tools & Technologies:** Linux, Git, CLion, IntelliJ, PyCharm, Android, Object-oriented programming in Java & C++, Data Structures and Algorithms in Java & C++.