

Sadek M. Elsayed

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EDUCATION

STEM high school for boys - 6th of October

High school

- Egypt Top Public High School, GPA 4.0 (unweighted); 33 ACT (36 M; 36 S; 31 E; 28 R)

09/2020 – present

Giza, Egypt

PROFESSIONAL EXPERIENCE

Competitive Programming Mentor (4 hrs / week)

STEM Egypt | Hack Club

- Gave 15 sessions (13 online + 2 offline); recorded; 5 articles; see content here
- Organized an online CodeForces contest with 5 Participants and wrote 3 original problems.

02/2022 – 09/2022

Leader (2 hrs / week)

School's English Club | Writing Branch

- Formulated a curriculum of 10 sessions on principles of writing and grammar.
- Administrated the workflow of 10 mentors while tutoring 40 students in the curriculum.
- Closely Instructed a group of 4 mentees.

04/2022 – 09/2022

German Mentor (2 hrs/week)

School's German Club

- Arranged a weekly meeting for a class of 20 students to explore the German curriculum.
- Assigned tasks, revised them, and offered support for the students throughout the week.
- Directed other 5 mentors to doing the same in their classes.

10/2021 – 03/2022

Algorithms Mentor (2hrs/week)

School's CS club

- formulated a curriculum of 5 sessions and taught it.

04/2022 – 09/2022

Capstone Project Assistant

- Helped over 10 groups with their projects.
- Led a mock exhibition for 5 groups

10/2021 – present

PROJECTS

Sum of Rows of Pascalized Triangle

Pioneer Academics Program | Maths

- Investigated various generalizations of the famous pascal triangle.
- Proved 4 conjectures for Pascalized Triangles; formulated 8 formulas; proposed a conjecture.
- Posted 2 entries on the OEIS: A356692 & A228074

06/2022 – 09/2022

Investigating the Media Favorability of U.S presidents

Codebozu | Program to teach CS, led by Cornell's CS studetns

- Coded the project using various Python libraries with a group of 5 international students.
- Gathering data from various media websites, the project analyzes them to investigate the media favorability of U.S. presidents.

12/2021 – 02/2022

INTERESTS

Competitive Programming (Ranked pupil on Codeforces) | Python (Look at my various github projects)

LANGUAGES

English

135 Duolingo

Arabic

Native

German

A1 from school

COURSES

Solving Global Challenges

07/2022 – 07/2022

Yale University - Yale Young Global Scholars

- Attended 5 lectures, 3 seminars, and several discussion sessions.
- Developed a simulation project with a team of 4 international students.