Sadek M. Elsayed

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

11/2021 - present

PROFESSIONAL EXPERIENCE

STEM Egypt | Hack Club

Member

04/2021 - 11/2021

- attended 15+ sessions on python and competitive coding
- attended 5+ seminars on various Computer Science fields

Assistant 07/2021 – 11/2021

• organized the workflow of sessions by recording absence, presence, and etc.

Competitive Programming Mentor (4 hrs / wk)

• Gave 15 sessions (13 online + 2 offline); recorded; 5 articles; see content here \square .

• Organized an online CodeForces contest with 5 Participants and wrote 3 original problems.

School's English Club 04/2022 – 09/2022

Leader of Writing Branch (3 hrs/wk)

• 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 with a total of 60+ sessions.

School's German Club 10/2021 - 03/2022

German Mentor (3 hrs/wk)

- 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.

School's CS club 04/2022 – present

Algorithms Mentor (2hrs/week)

- formulated a curriculum of 5 sessions on various types of algorithms & data structures.
- ended up with having 5+ ECPC and IIOT competitions finalists out of 15+ mentees.

School's Capstone Directors 10/2021 – present

Capstone Project Assistant

- Helped 10+ groups with their projects.
- Led a mock exhibition for 5 groups.
- did portfolio & poster weekly revisions.

Yale University - Yale Young Global Scholars 07/2022 - 07/2022

Participant

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

Experiment Digital - Youth Leadership & Community Service, The Department of State 🗵

Participant 06/2021 – 08/2021

took 8 modules on community service and gained a certificate of distinguished achievement.

Ambassador

spread knowledge about the program all over the middle east.

Peer Mentor

supervised 15+ mentees while learning the same 8 community service modules; oversaw discussion & chats.

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PROJECTS

Investigating the Media Favorability of U.S presidents 🛮

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

12/2021 - 02/2022

- 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.

Sum of Rows of Pascalized Triangle \square

06/2022 - 09/2022

Pioneer Academics Program with Oberlin College

- 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 ☐.

Gentian Blossom 02/2022 – 05/2022

School's Capstone Project

- Built an alternative feedback control system to adjust the production of Gentian Violet, aided by the use of a solar panel.
- Coded a whole Arduino system that utilizes the workflow of a sensor and a pump.
- Presented the project on front of a group of university professors and got a grade of "A+".

INTERESTS

Competitive Programming ☑ (Ranked pupil on Codeforces) | **Coding Projects** ☑ (Look at my various github repositories.)

AWARDS

Egyptian Olympiad in Informatics (EOI) top 15th percentile.

15/09/2022

- The top individual informatics contest for Egyptian School Students.
- Attained that position after a 2-day offline contest and a 2-day online contest.

First Place winner at the Nasa Space Apps Giza Location & a Global Nominee

20/09/2021

 Developed an App that gives representative graphs for data about sun from the NASA API.

2nd place at the Moonshot Pirates #beapirate challenge out of 65 international teams 🗵

01/07/2021

- proposed a smart, accessible solution for the problems of people with deaf-blindness.
- was in a team with other 5 internationals from 4 other countries.

STEM schools merit based scholarship top 1 percentile out of 18k+ applicants

07/10/2020

passed a science, math, technology, and IQ test on the national scale.

Egyptian Collegiate Programming Contest for Teens top 12th percentile out of 175+ teams

26/08/2022

- Passed an online qualification round & two separate offline rounds.
- Worked with a partner to solve problems on various algorithms & data structures.

LANGUAGES

English	Arabic	German
135 Duolingo	Native	A1 from school

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