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Education

10/2020 – 07/2023
Sharkya, Egypt

Sharkya STEM High School

- STEM Honors Diploma, GPA: 3.84

Experience

05/2022 – 07/2022

LaunchX Entrepreneurship Program | Student (Launchie)

- Got full scholarship with \$5,955. Attended daily informative 90+ sessions. Completed weekly labs and simulations. Launched a real startup; Awarded “Top Startup Pitch” honor.

10/2021 – present

Hack Club | Founder and Leader

- Founded Sharkya STEM Hack Club. Led organizing workshops for 100+ trainee, contests, hackathons, and Facebook experts panel in computer science fields: competitive programming, web development, app development, robotics and cyber security.

07/2022 – present

EnSpire Business Club | Co-Founder and Vice-President

- Led a one-month intensive course, teaching business and entrepreneurship for 50+ international students. Provided MBA professors to teach students. Mentor of Economics, Business Research, Prototyping sub-clubs.

07/2022 – present

Arab Math Olympiad | Trainee

- Attended 50+ sessions about algebra, geometry, number theory, and combinatorics. Completed daily tasks and assignments. Top 10 at Egypt qualifications.

06/2022 – present

Swap O'clock | Co-Founder and CTO

- Co-founded Swap O'clock in LaunchX, an IOS application that allows parents to control the time spent on Educational and Entertainment apps by adjusting a ratio between their screen time. Got profit \$325 in one week.

06/2022 – 07/2022

Yale Young African Scholars | Scholar

- Attended university guidance, career and social impact exploration, academic seminars, and family-time sessions. Completed tasks and assignments.

02/2022 – 03/2022

Codebozu Fellowship | Fellow

- Completed python advanced level course. Developed image processing project using OpenCV and NumPy. Attended sessions for Cornell University instructors.

06/2021 – 10/2021

Sharkya STEM Model Arab League | Chairman

- Led a conference debating controversial issues in the Arab World and Middle East, Facebook posts to raise social awareness, training for 90+ members and delegates.

10/2021 – 05/2022

Student Union | Head of Social Committee

- Planned 10+ field trips for capstone project for 3++ students. Held fun-days that included football, ping-pong, and chess tournaments. Improved food and dorms quality.

07/2022 – 07/2022

Egyptian Space Agency Training (EgSA) | Trainee

- Attended a one-week Can Sat training, representing my school. Developed a Can Sat using ESP32, DHT11, MPU9250, BMP280. Awarded 4th place on Egypt STEM Schools.

06/2022 – present

English-To-Arabic Translator
Coursera

- Translated more than 5000 words of Coursera online courses.

Honors

07/2022

International Finalist in the International Physics Olympiad (IPhO) and Second Place on Egypt

07/2022

Attended the International Telecommunications Conference (ITC 2022)

05/2022

Third Place on Egypt in the International Math Olympiad (IMO) Qualifications

04/2022

First Place on Egypt in International Purple Math Comet Meet and 21st Place Globally

03/2022

National Finalist and 17th in International Informatics Olympiad in Teams (IIOT)

03/2022	Third Place Winner in Aquathon Entrepreneurship Competition
02/2022	Egyptian Science and Engineering Fair (ESEF) National Finalist
02/2022	National Semi-Finalist in The Diamond Challenge Entrepreneurship Competition.
01/2022	Tatawwar Entrepreneurship Program MENA Region Semi-Finalist (top 200 out of 5,000)
12/2021	Gold Honor in International Youth Math Challenge (IYMC)
10/2021	First Place Winner and Global Nominee in NASA Space Apps
07/2021	Bronze Honor in International Astronomy and Astrophysics Competition (IAAC)
12/2020	Bronze Honor in International Youth Math Challenge (IYMC)
10/2020	Ranked 26th/17,000 in STEM Schools Admission Test
10/2020	Ranked 3rd/5000 in Motafawkeen Ain Shams School Admission Test
	Bronze Medal in Kangaroo Math Egypt
	Bronze Medal in Kangaroo Science Egypt

Projects and Publications

02/2022 – 03/2022	CodeBozu Fellowship Project Python software using Numpy and OpenCv for different image processing tools.
10/2021 – present	IoT Solar Based System for Atmospheric Water Generation The project generates drinkable water from the air depending on sun irradiance and desiccant adsorbing humidity during the nighttime. Mineralization occurs with feedback control system regarding TDS and pH levels using IoT system.
11/2021 – 02/2022	Respi-Pro Designed the Respi-Pro mask, a smart mask that, in addition to functioning as a traditional face mask, has the features of a health tracker (heart tracker, heartbeat counter, etc.) as well as a breath analyzer to early-detect some chronic diseases (including diabetes as our primary focus); developed a business plan and marketing strategy; created a complete pitch deck presentation.
09/2021 – 10/2021	Go-Green The Go-Green application was built to help solar cells users increase the efficiency of their cells. It operates by obtaining sun-related data from NASA's API and visualizing it to the users through graphs and charts. The entire project was completed using react-native and its accompanying libraries.
07/2022 – 07/2022	Can Sat Egyptian Space Agency Can Sat software and hardware model with ESP32 to measure gravitational field, temperature, humidity, etc.
09/2022 – present	IoT CO2 Aqua Analyzer Modeling relations between CO2 concentration in the air, pH of ocean water, and air temperature and expecting future values using IoT system and GUI to view the use with information needed, spreading awareness.

Languages

Arabic Native Language	English High Proficient, DET: 130	French Beginner Level
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Skills

STEM	Entrepreneurship
Computer MS Office, Adobe Illustrator, Competitive Programming, Web Development [HTML, CSS, JS, SCSS], Python, C++	Research
Soft Skills Leadership, Teamwork, Graphic Design, Public Speaking	

Hobbies

Table Tennis The second place in table tennis school tournament.	Chess Rated 1400+ on Lichess
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