

+20 11 2449 7451

abdelhamidofficial2005@gmail.com

<https://abdelhamid-portfolio.netlify.app/>



ABDELHAMID EL-RASHIDY

Front-end Web Developer – Techentrepreneur – NLP Enthusiast

EDUCATION

**Kerdasa Language
School**
2010 – 2021

**STEM High School for
boys – 6th of October**
2021 – 2024

EXPERTISE

Web Development

Entrepreneurship

Academic Research

Creative Writing

LANGUAGE

Arabic

English

Deutsch

Latest Tech Project

- 2023
STEM October Computer Science Club Website
Technologies: (HTML – CSS – JS – express.js – JSON)
The STEM October CS Club website serves as the central platform for showcasing projects and articles produced by the computer science club at my high school. It features dedicated subpages for each track within the club, presenting their respective content. The website boasts an exceptional user interface, with well-organized sections highlighting projects, articles, utilized technologies, and statistics. All article and project data are hosted on a serverless, self-built API, organized in a hierarchical layout for optimal accessibility.
- 2023
Arabic Tweets Sentiment Analysis Model
Technologies: (Python – Tensorflow – Jupyter)
For the Sentiment Analysis of Arabic Tweets project, Arabic tweets are collected from the Twitter API, undergo preprocessing, and are cleaned before conversion into numerical data using specific algorithms. A machine learning model is then constructed to classify tweets into positive and negative sentiments. The project rigorously evaluates various machine learning algorithms, calculating accuracy and other metrics to compare their effectiveness and select the most optimal algorithm for sentiment classification in Arabic tweets
- 2023
Glove Goniometer Tracker
Technologies: (HTML – CSS – JS – Chart.JS)
The Glove Goniometer Tracker is a web application designed to store data from two range of motion sensors—Flex sensor and MPU6050—embedded in a textile glove. These sensors track the progression of Rheumatoid arthritis in hand joints by measuring range of motion. The data from the sensors is stored on Firebase and seamlessly connected to the website. The website displays the sensor data through interactive graphs and tables, utilizing JavaScript libraries such as chart.js for a user-friendly and visually appealing presentation.

Top skills

HTML & CSS

C++

Graphic Desing

JavaScript

Problem-Solving

Creative Writing

Python

NLP Models

Academic Research

Experience

2021 - 2023

Youth Science Journal (YSJ)

Junior (2022) - Senior & Editor (2023)

- Co-authored a literature review titled "**The Future of Startups in the Arab Region**".
- Supervised 2 international teams with my expertise in CS and BS, ranking top 25% among ~50 teams:
 - 1st team's paper: "**AI-Based Embedded Gloves for Deaf & Blind people**".
 - 2nd team's paper: "**The Effects of Diversity & Inclusions on employee performance within Kazakhstan Organizations**".
- Provided the two teams with 12 sessions explaining the principles of academic research and introducing helpful tools.
- Peer reviewed a paper about the gender gap in computer science in Egypt.

2022 - 2024

STEM October Computer Science Club

Website Manager & Head of Web Development

- Initiated and led an official website for the club, hosting recent articles and projects for club tracks.
- Collaborated with the marketing and content writing committee & boosted club membership by ~75%.
- Trained **2** mentees to be web development instructors for the boot camp at the end of the season through ~8 hours and applied projects.
- Evaluated **15+** projects in the club's tracks including machine learning, web development, mobile development, etc....

2022 - 2023

STEM Modal United Nation (MUN)

Website Manager & Co-Head of IT Committee

- Interviewed IT committee members & selected 8 members to provide them with 6hrs training sessions.
- Assisted the high-board to purchase a budget-friendly domain and replaced the expired one for the team's websites.
- Updated the team website by adding a team page and preloader & solved some UI problems & decrease the page time load.
- Contributed to sweep "**The Horreya Garden in El-Zamalek**" in July 13, 2023 and engaged in discussions about Sustainable Development Goals (SDGs) aligning with the team's mission and vision.

Community Service

2022 - 2023

English Club

Academic Mentor

- Directed a professional English curriculum plan for enhancing four skills of language.
- Conducted 10+ sessions featuring challenging assignments accompanied by immediate feedback.
- Coordinated 2 debate sessions that help students enhance their public speaking skills.
- Trained 2 mentees for the upcoming season through 4 sessions & 6 mentees for standardized tests.

2023 - 2024

STEM October School Official Website

Website Co-Manager

- Optimized the website infrastructure by reorganizing the images folder and relocating all university logos to a designated subfolder.
- Updated the content for sections like competitions and programs with last 4 years data.
- Reduced the page load time by 50 milliseconds for improved website performance.
- Improved the UI/UX of Campus section by creating attractive gallery with more images that illustrate the beauty of whole campus.

2022 - 2023

IEEE Helwan University Branch

Web Development Instructor

- Assisted 20+ undergraduate students in building a work portfolio for web development jobs.
- Taught 12hrs web development course through online sessions accompanied by practical assignments.
- Led an 8-student with a 5-hour in-person workshop to guide the development of their initial website.
- Oversaw 2 web projects in Texas hackathon & one of them ranked 1st.

Honors & Certificates

- STEM high school admission exams - **top 1%** (~25000 applicants).
- International Finalist at International Research Competition for Young Scientists.
- IELTS Score: **7** Overall.
- Youth Science Journal.
- STEM MUN.
- English Club.
- IEEE HSB.
- October Computer Science Club.