

Abdelrahman Mohamed Hanafy

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EDUCATION

Bachelor of Science in Computer Engineering

Arab Academy for Science, Technology and Maritime Transport
CGPA: 3.97

2019 - 2024

EXPERIENCE

Electronics and Robotics Instructor

RoboKid Academy

August 2020 - Present

- Tutor Electrical circuits analysis, Digital design, and ArduinoC programming for more than 60 students.
- Established 4 Robotic projects using Arduino and Raspberry Pi.
- Coached 3+ junior teams in robotics competitions such as seaperch and minesweepers.

Software Engineer Intern

Bibliotheca Alexandrina

July 2022 - August 2022

- Developed 2 SQL databases to manage interfacing project forms using an SQL server.
- Wrote webforms in .NET Framework with C# for interfacing with databases and tested code to verify functionality.
- Produced clean, tight code to create well-functioning 2 web form applications.

Undergraduate Engineering Trainee

TITAN Cement Egypt

July 2022 - July 2022

- Undertook automation sessions with qualified engineers to understand typical issues and build solid understanding of design development and optimization approaches.
- Integrated into team culture to better assist with project needs.
- Engaged in 2 special projects, taking lead on important project initiatives.
- Designed 3 interactive presentations using PowerPoint and Canva.

PERSONAL PROJECTS

[Point of sale system](#) [C#, SQL Server, JavaScript]

Bibliotheca Alexandrina ICT sector

Web application that uses html5 canvas to represent the hall's seats and allow users to reserve the available ones. It uses SQL server data to store the events and halls' data implementing singleton design pattern to handle database requests.

[System for courses centers](#) [Java, JavaFX, Sqlite3]

Arab Academy for Science, Technology and Maritime Transport

Windows application that enables the centers' secretary staff to digitize all the daily tasks of registering new students, tutors, and courses. It uses Scene builder in designing the views. It implements lots of design patterns such as the factory pattern.

[WeRateDogs Twitter Account Analysis](#) [Python, APIs]

Udacity Data Analysts Professional Nanodegree

Jupyter notebook that fetch twitter data using Twitter API and parsing JSON files (archived data) to make full analysis for digital marketing purposes. The final report concluded the best time to tweet, and which tags, keywords, and content would grab the most traffic to the account.

[Ball Chaser](#) [Python, C++, ROS, RViz, Gazebo]

Udacity Robotics Software Engineer Nanodegree

Simulation for a robot with a depth camera that searches the room for a white ball and chases it. It is implemented on Ubuntu 18 using ROS kinetic and Gazebo simulator. All the computer vision and control nodes are written manually in python and CPP.

[Movie Recommender](#) [Python, Sqlite3, APIs]

Personal Project

Console application which provides the user with the top 5 recommended movies based on a movie he/she suggests. It is done by using OMDB and TasteDive APIs to fetch movie recommendations and ratings. It stores all the search history on sqlite3 database to recall the results in the case of repeated queries.

SKILLS

Programming: **Python, C++, C#, Java, SQL, PHP, JavaScript**

Tools: **Excel, Git, .NET Framework, SSMS, Django, pandas, seaborn, ROS, RViz, Gazebo, swing, JavaFX**

Soft: **Teamwork, Planning, Research, Problem-solving**

Extracurricular Activities

ENACTUS AAST ALEX

Arab Academy for Science and Technology, Egypt • Project Manager

August 2020 - July 2022

- Directed 2+ groups each of 10 members to operate on both projects for 2021 competition.
- Coordinates between technical and non-technical teams to conduct a 40% increase at the project implementation quality.
- Documented three projects' charters for national board approval at both 2021 and 2022 competitions.

ECPC Egyptian Collegiate Programming Contest

Arab Academy for Science and Technology, Egypt • Contestant

- I have participated in the ECPC qualification rounds for 2020, 2021, 2022.
- I have been on the top ten teams in the 2021,2022 AAST qualification.