

Ibrahim Abou Elenein

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A Computer Science Student interested in **Math, ML, Competitive Programming and Software Engineering.**

EDUCATION

Bachelor of Engineering (B.E.) - Computer Science and Engineering

German University at Cairo, Cairo

Sep 2019 - Mar 2024 (Expected)

- Deigned a **database** for the GUC postgraduate office using **mssql** and then created The website (frontend & backend) using **ejs, Nodejs and Javascript**.
- Managed to create a single player turn-based empire building game in which **OOP concepts, and design patterns** were implemented.
- Created an **open-source web scrabbling** script to automate downloading files and videos from GUC website and organize them.
- Launched a community for open source enthusiasts and gave sessions about **Linux command Line**.
- Implemented a CPU cache system using **Functional Programming** (Haskell) and **Logic Programming** (Prolog).
- Designed a Line Follower Robot for IEEE competition and **won second place** (using **Arduino**).
- Implemented the backend for ecommerce website using **nodejs**

EXPERIENCE

Junior Teaching Assistant

Oct 2021 - Present

German university at Cairo, Cairo

- Assisted Students in Data Structures and Algorithms course.
- Help them implement the data structure themselves and help them using it In solving algorithmic problems.

Data Scientist

Sep 2021 - Dec 2021

ECES, Cairo

- Collect structured & unstructured data using sites APIs and web scraping techniques
- Clean & wrangle data using Python libraries to ensure tidiness and cleanliness standards.
- Explore data to unveil hidden patterns & trends and understand relationships using Seaborn, Matplot and WordCloud
- Pre-processing data for ML modeling.
- Analyze data applying ML training algorithms, such as Topic Modeling and Word2Vec, Random Forest and so on.
- Document optimized code following best practices in reports or dashboards then present it to the team & management.

Junior Machine Learning Engineer

Oct 2021 - Dec 2021

Omdena, remote

- Scraped data, cleaned it and preprocessed the data.
- Selected model, fine tuned it and evaluated the model.

SKILLS

Java, Python, C, JavaScript, NodeJs, Git/Github, OOP, Design Patterns, Data Science, ML, Problem Solving, Software development, Linux, Web Scraping, HTML/CSS, Bash Scripting, LaTeX, MS Suite

LICENSES & CERTIFICATIONS

Seventh Place in GUCCPC 2021
ICPC
Got seventh place in GUCCPC out of 24 teams and **qualified to ECPC**.

HONORS & AWARDS

Top Ranked Thanaweya Amma Scholarship 2019 2019
German University at Cairo

VOLUNTEER

Head of Problems Committee 2021
Fractals

A community for **Math** nerds in GUC, where we share puzzles, problems.

- Prepared puzzles and problems for the community.
- Prepared a problem solving contest for GUC students
- Gave Sessions about math topics such as number theory, Tiling Problems,.. etc.

Junior Head of Data Analysis 2020
IEEE
Teaching **data science** pipeline.