Kareem Hegazy

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Education

The German University in Cairo (GUC).   New Cairo, Egypt.
Bachelor of Science in Computer Science Engineering   *October 2020 – July 2025*
GPA: 1.54 (**A-** - German grading)

The German University in Cairo (GUC).   New Cairo, Egypt.
Bachelor Thesis project   *February 2024 – August 2024*
Topic: [Industry 4.0] Creating Smart Maintenance Systems

- Investigated the effectiveness of machine learning for predictive maintenance in the industrial sector.
- Developed and evaluated models using techniques like Gradient Boosting and Neural Networks.
- Predicted both time-to-next-maintenance and potential machine failures with high accuracy.
- Contributed to the field by providing insights into model strengths and weaknesses for predictive maintenance.

Thanwya Amma / High School   October 2006 – July 2019
Grade: *98.5 % - **Ranked 3rd on my school***   *Mansoura, Egypt.*

Work Experience

Machine Learning (Part time).   August 2023
Drive Finance " Forsa " .   *Cairo, Egypt*

- Developed a machine learning model using Python to predict customer payment behavior, specifically focusing on identifying those likely to pay bills on time or incur penalties.

Software Development (Full time).   April 2024 - Now
Zammit.   *Cairo, Egypt*

- Acquiring foundational software development skills through focused learning on HTML, CSS, React, and JavaScript in preparation for future professional roles.
- Established the initial project structure and implemented basic front-end functionalities, contributing to the company's development workflow.
- Enhanced team collaboration and knowledge sharing by documenting project setup, access procedures, and update guidelines within comprehensive README files for all repositories.

Skills

- **Programming Skills:** *OOP concepts, MERN Stack, Java, Python, JavaScript, SQL, Prolog, Haskell, HTML, CSS, C, C++*
- **Languages:** Arabic: (Mother Tongue) , English: (Fluent), German (A2)
- **PERSONAL SKILLS:** Team-player, Hard-worker, Adaptable, persuasive, Leadership

Projects

"Elha2ni" Pharmacy Website.   *MERN stack (MongoDB - Express - React - Node.js).*   Code

- Developed a full-stack e-commerce pharmacy website using the MERN stack for online medication purchases with various features.

DATABASE ENGINE   *Java ,OOP Concepts*

- Developed a custom database engine in Java, utilizing Object-Oriented Programming (OOP) concepts for efficient data management. This engine implements Octree indices for optimized spatial querying, particularly useful for applications involving 3D data.

ONLINE BANKING SYSTEM   *JavaScript, HTML, CSS*

- Designed and developed a functional online banking system using web development technologies: JavaScript for dynamic interactions, HTML for content structure, and CSS for visual styling. This system provides basic functionalities for users to manage their finances.

MARVEL: ULTIMATE WAR   *Java ,OOP Concepts*

- Developed a two-player war game using Java and object-oriented programming principles.

Extracurricular Activities

Inspire GUC.   September 2020 – July 2024

Inspire is a sports club that promotes health awareness and organize sports events. I've been with them for four years, during which I was:

President:

- Established a new "CDP" (Cognitive Development Program) committee with a dedicated sports field, expanding the club's reach and offerings.
- Led the interview process for over 30 candidates, ensuring a strong Upper-Board and High-Board to support the club.
- Oversee the successful management of 12+ sports events and provide supervision for over 180 members.

Vice President of Finance and Coordination:

- Secured sponsorship contracts with more than 40 partners within 9 months, significantly raising the club's financial resources.
- Led the successful execution of over 15 sports events and supervised a team of 50+ members.
- Recognized for exceptional performance as "Best Vice President" at The German University in Cairo.

Logistics and Operations Member:

- Contributed to the smooth running of club activities for two years, ensuring efficient logistics and operational support.
- Spearheaded the development of a welcome package for new members, comprising 10 items that embody the club's identity and foster a sense of belonging.
- Played a key role in ensuring the safety and security of all Inspire events for one year, efficiently handling conflicts and managing event setups as a CMT (Crisis Management Team) member.

GUC Photoshoot.   May 2024

Gates Team Leader

- Supervised a team of 34 ushers, overseeing the efficient entry process and flow of senior using ID verification.
- Managed a designated storage area for seniors' belongings and facilitated their movement throughout the event till they arrive to the stage.

3Bont Ushering Organization.   December 2022 - Now

Operations Usher (AL [Amateurs League] Seasons 2, 3, and 4, Dell Olympics)

- Verified player eligibility and ensured game readiness as a team representative usher, contributing to smooth event operations.
- Assisted with venue setup for various events held during the Amateurs League seasons.

Operations Lead Hydepark Football Ramadan Competition

- Managed gate operations, ensuring secure player entry through ID verification.
- Led a team in crisis response protocols to maintain venue security and in venue setup

GUC Graduation Ceremony.   October 2022 & October 2023

- **Stage Usher:** Responsible for **Transporting, Seating, Crowd Control** the graduates in the stage and evacuation.

TMEM (Tickets Marche Events Management).   October 2023

- **Validation Usher in "AUC" commencement and "Mohamed Helmy" concert:** Responsible for the entry process of the attendees.

GUC Employment Fair.   May 2022

- **Gates Usher:** Responsible for the entry process of the companies attending the fair.