Nada Sheref Elbehery

Software Engineer

✉ n.elbehery5@gmail.com

☎ +201025062054

📍 Maadi,Cairo,Egypt

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PROFILE

Aspiring Software Engineer with a strong foundation in backend development, database design, and machine learning. Experienced in designing scalable APIs, implementing efficient data structures, and building real-world applications. Passionate about solving complex problems and continuously learning new technologies.

EDUCATION

September 2020 – June 2025	**Computer Science and Engineering,** German University in Cairo GPA: 3.8

PROFESSIONAL EXPERIENCE

July 2024 – October 2024
Cairo, Egypt

Raisa Energy, Backend Engineer Intern
- Developed and optimized RESTful APIs in ASP.NET Core, using SQLKata to improve query efficiency, reducing data retrieval time by 40%.
- Integrated automated ERD generation into the CI/CD pipeline, ensuring up-to-date database documentation with each deployment.
- Implemented conditional build tags in CI/CD, improving pipeline efficiency by triggering documentation updates only for relevant builds.

EXTRA-CURRICULAR ACTIVITIES

September 2023 – January 2024

Junior Teaching Assistant, German University in Cairo
- Mentored and guided students in Data Structures and Algorithms, helping them debug and optimize code.

July 2023 – August 2023

Consumer Segments Summer intern, Vodafone Egypt
- Conducted data-driven market research on consumer behavior, analyzing key insights for segmentation strategies.
- Collaborated with cross-functional teams (Marketing, Sales, Data Analytics) to execute targeted marketing campaigns.
- Presented strategic recommendations to senior management, influencing campaign decisions.

January 2023 – March 2023

Member of the speaker's experience team, RiseUp
RiseUp is a platform that connects startups to resources worldwide.
- In charge of international speakers and making sure their summit experience was remarkable.

COURSES

April 2024 – October 2024
Cairo, Egypt

Machine Learning and AI Diploma, Amit Learning
- Gained proficiency in Python for Machine Learning, focusing on libraries such as Pandas, Anaconda, and NumPy for data manipulation and analysis.
- Acquired solid understanding of Machine Learning and Deep Learning concepts.

PROJECTS

Online Clinic and Pharmacy
MERN stack
Developed a virtual clinic platform coupled with an online pharmacy.
https://github.com/advanced-computer-lab-2023/Pill-Stack-Clinic.git ↗
https://github.com/advanced-computer-lab-2023/Pill-Stack-Pharmacy.git ↗

Football Managment System

SQL, ASP.NET

Developed a management system ASP.NET application that connects to a SQL database.

https://github.com/Nadaelbehery/Football-Managment-System.git ⊡

Database Engine

Java

Built a database engine that supports core functionalities such as creating and managing tables, as well as inserting, updating, deleting, and selecting data, with a focus on using Octree indexing for efficient queries.

https://github.com/Nadaelbehery/Database-engine.git ⊡

Online Banking System

HTML, CSS, JavaScript

Handled the requirements gathering, designing the software, and the front-end development.

https://github.com/software-engineering-2023/Haqarz.git ⊡

Marvel Game

Java

Developed a simple RPG game with a Model-View-Controller pattern.

https://github.com/Nadaelbehery/MarvelGame.git ⊡

Defect Detection in Manufacturing

Python

Developed a machine learning model to detect defects present in Wire Arc Additive Manufacturing using the process parameters as input features.

Operating System

Java

Built a simulation of an operating system illustrating processes and resources management.

https://github.com/Nadaelbehery/Spicy-OS.git ⊡

Triple Authentication Safe

C++, MicroPython

Designed an embedded system harnessing the power of the Raspberry Pi Pico W microcontroller.