

Khaled Ibrahim Al-Desouky

Software Engineer

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EDUCATION

Assiut University, Assiut, Egypt 2021 – present
Bachelor of Computer Science, Faculty of Computers and Information
Department of Computer Science *Expected Graduation: 2025*
Relevant Coursework: *Data Structures, Algorithms, Object-Oriented Programming, Databases, Advanced Database, Distributed Databases, Operating Systems, Parallel Computing, Networking, Network Programming, Image Processing, Computer Vision, Artificial Intelligence (AI), Intelligent Systems, Data Mining, Agile and Scrum Techniques, Introduction to Computer Security, Software Engineering, Software Development.*

PROJECTS

FAST FOOD DELIVERY (OTLOBLY) Mar 2024 - Apr 2024
Developed using ASP.NET Core MVC 7, with distinct roles for Superadmin, Admin, and Customers. Utilized LINQ, MVVM, Identity, and Stripe API for streamlined functionality.

ONLINE EXAM Nov 2023 - Dec 2023
Developed using ASP.NET Core MVC 8, supporting online exams with Admin and Student roles.

N-Queens Solver using Genetic Algorithm (Python) Feb 2024
Implemented the N-Queens problem solution using a Genetic Algorithm in Python, incorporating crossover, mutation, and a fitness function to optimize the solution.

Gesture Recognition System (Sign Language) - Python Apr 2024
Built a real-time hand gesture recognition system for sign language using Python, MediaPipe, and machine learning. Implemented data collection, model training (RandomForest), and real-time classification via webcam.

Exercise Analysis Platform (Gym AI Coach) - Python May 2024
Developed a platform called Gym AI Coach for collecting exercise data, training a model, and providing real-time feedback using Python. The platform includes scripts for data collection, model training, and real-time exercise analysis via webcam.

Distributed Database System (Go & MySQL) Apr 2025 - May 2025
Developed a MySQL cluster management system in Go with Master-Slave replication, automatic failover, CRUD operations, and cluster monitoring via RESTful APIs. The system supports real-time database replication, node health checks, and remote shutdown capabilities.

WORK EXPERIENCE

• **Cloud Computing And AI intern at EJADA** Jul 2024 - Aug 2024

ACHIEVEMENTS

• **AWS Academy Graduate - AWS Academy Cloud Foundations** Dec 2023

- **Google Cloud Fundamentals: Core Infrastructure — Google**
 - **ECPC (Egyptian Collegiate Programming Contest)**
 - **Leadership Preparation Competition**
- Aug 2024

Aug 2023

April 2024

SKILLS

- **Programming Languages**
C, C++, C#, Java, Python, Go, SQL, LaTeX.
 - **Frameworks & Technologies**
ASP.NET Core (Web API & MVC), Entity Framework (EF), LINQ.
- **Tools & Platforms**
Git, GitHub, Visual Studio, MySQL, Microsoft SQL Server, Jira, Azure, GCP, AWS, Visual Studio Code.
 - **Soft Skills**
Problem Solving, Leadership, Team Work, Time Management.

VOLUNTEERING

- **President, Students Union — FCI - Assiut University**
 - **Main Organizer, Assiut Employment & Freelancing Forum (Third Edition)**
 - **Main Organizer, SolveX Hackathon & Jop Fair - Assiut**
 - **C++ Programming Fundamentals Instructor - Bionic Assiut**
 - **Head of Public Relations Department - Bionic Assiut**
 - **Head, Sports Committee - College Student Union, Assiut University**
 - **Vice Head, Sports Committee - College Student Union, Assiut University**
- 2024–2025

2024–2025

2023–2024



2023–2024

2023–2024

2023–2024

2022–2023

LANGUAGES

-  Arabic - Native
-  English - B1