Khaled Ibrahem Al-Desouky

Software Engineer

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EDUCATION

Assiut University   2021 – 2025
Bachelor's Degree in **Faculty of Computers and Information**, Department of Computer Science (CS)

Relevant Coursework: *Data Structures, Algorithms, Object-Oriented Programming, Databases, Distributed Databases, Operating Systems, Parallel Computing, Networking, Image Processing, Computer Vision, Artificial Intelligence (AI), Intelligent Systems, Data Mining, Agile and Scrum Techniques, Introduction to Computer Security, Software Engineering.*

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   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 2024 - present

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

- [Google Cloud Fundamentals: Core Infrastructure — Google](#)   Aug 2024
- **ECPC (Egyptian Collegiate Programming Contest)**   Aug 2023
- **Leadership Preparation Competition**   April 2024

Skills

- C
- C++
- C#
- GO
- JAVA
- PYTHON
- SQL
- ASP.NET CORE web API
- ASP.NET CORE MVC
- Problem Solving
- Leadership/TeamWork
- Team Management

Volunteering

President, Students Union — FCI - Assiut University   2024–2025

Main Organizer, Assiut Employment & Freelancing Forum (Third Edition)   2024–2025

Main Organizer, SolveX Hackathon & Jop Fair - Assiut   2023–2024

C++ Programming Fundamentals Instructor - Bionic Assiut   2023–2024

Head of Public Relations Department - Bionic Assiut   2023–2024

Head, Sports Committee - College Student Union, Assiut University   2023–2024

Vice Head, Sports Committee - College Student Union, Assiut University   2022–2023

Languages

- 🌐 Arabic - Native
- 🌐 English - B1