Mahmoud Mohamed Refaat

Software Engineer | • C# • ASP.NET Core MVC • SQL

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Military Status: Completed Mahmoud Refaat Mahmoud Refaat Mahmoud Refaat

EDUCATION

B.Sc. Mathematics & Computer Science

Faculty of Science

• Grade: Very Good (B+)

08/2016 - 08/2020 Benha

PROFILE

Software Engineer with hands-on experience in C#, ASP.NET Core MVC, and SQL.Built and deployed web applications with database integration, CRUD operations, and Web APIs. Strong background in problemsolving and data analysis, with additional skills in Python and BI tools to support data-driven software development. Currently improving front-end skills (HTML, CSS, Bootstrap) to deliver complete solutions.

SKILLS

Core Skills

- C# Programming (OOP, LINQ, Entity Framework)
- ASP.NET Core MVC, Web API
- SQL (Database Design, Query Optimization, Stored Procedures)

Learning & Development

- Machine Learning Basics (Regression, Classification)
- Natural Language Processing (NLP)
- SpaCy

Supporting Skills

- HTML, CSS, Bootstrap (Front-End Basics)
- Python (Pandas, Automation)
- Web Scraping & Automation (Selenium, Scrapy, BS4, API Integration)
- Power BI & Excel (Dashboards, Reporting)

PROFESSIONAL EXPERIENCE

Data Analyst | BI & Sourcing Engineering - Z2Data

- Automated weekly **SQL-based reports** for customer inventory, reducing manual effort by 30%.
- Built and deployed web crawling solutions to continuously update inventory from multi-seller websites, improving data freshness and reliability.
- Delivered SQL-based reports covering **10+** clients on weekly basis.
- Processed 10,000,000+ electronic part numbers weekly for supplier evaluation and sourcing optimization.
- Conducted shortage and cross-functional analysis to suggest alternative **components**, helping mitigate supply risks for clients.
- Ranked suppliers based on pricing and availability, contributing to cost savings and supplier optimization across projects.
- Worked with **SQL**, **Python**, **Power Query**, and **Excel automation** to support data warehousing and BI dashboards.

Feb 2024 – Present Benha, Egypt

PROJECTS

ASP.NET Core MVC Applications

- Built MVC applications with CRUD operations and SQL database integration.
- Implemented Web API endpoints and basic authentication.
- Developed RESTful APIs in ASP.NET Core supporting Create, Read, Update, and Delete (CRUD) operations.

SQL Stock Status Checker

05/2024 - 06/2024

• Designed an SQL tool to instantly check in-stock vs. out-of-stock products using Part-ID inputs.

2024 - Present

• Integrated with existing inventory database for real-time stock status.

House Prices Prediction – Advanced Regression Techniques (Kaggle)

08/2025 - 08/2025

- Developed regression models to predict house prices with feature engineering and optimization.
- Achieved Kaggle leaderboard score: 0.14909

Titanic Survival Prediction (Kaggle) &

07/2025 - 07/2025

- Built classification models (Logistic Regression & Random Forest) with preprocessing and feature engineering.
- Achieved 0.7676 accuracy on Kaggle public leaderboard

Web Scraping Tool for JavaScript-Rendered and Static Websites

05/2024 - 05/2024

- Developed a Python-based scraping pipeline for both static and JavaScript-rendered websites.
- Used Selenium, Scrapy, and BeautifulSoup to handle dynamic content loading.
- Automated data collection and exported results to Excel for streamlined analysis.

COURSES

• ASP.NET Core MVC – Coursera / Practical Projects	2024 – Present
• Web Scraping & Crawling – Applied Projects	2024 – Present
• SQL & Database Management – Coursera / Professional Experience	2022 – Present
Machine Learning – Coursera / freeCodeCamp	2025 – Present

LANGUAGES

Arabic: Native English: Very Good (Reading, Writing, Speaking)