Ibrahim Ahmed Ibrahim

.NET developer

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Summary

Pursuing a Computer Science major at the Faculty of Computers and Information. Acquired strong problem-solving skills developed through hands-on experience in diverse projects. I thrive in collaborative team environments and excel in leveraging Microsoft technologies, including .NET Core, ASP.NET Core, MVC, REST API, and SQL Server. Recently, I have been working on integrating the Ollama API to include the Llama2 LLM in my projects, enhancing the capabilities of my applications with advanced language models.

Skills

Languages	Python, C#, C++, HTML/CSS, SQL.
Technologies	.Net Framework, ASP, Entity Framework, RESTFul API.
Developer Tools	Git/&Github, Clion, Rider, Pycharm, MS SQL Server,PostMan, SwaggerUI, Visual Studio.
Concepts	OOP,SOLID Principles, Data structure , Algorithms, Design patterns, Database design, Integration
Software Engineering	Agile Methodologies, Version Control Systems, Software Development Lifecycle. Testing and Debugging.
Soft Skills	Troubleshooting, Teamwork, Problem-solving, Documentation, Engaging Presentation.

Projects

Estate Agent　　　　　　　　　　　　　　　　　　　　　　　　　　　　　*DEPI*

Real Estate Property Management System built with ASP.NET Core. It provides functionality for
managing properties, users, contracts, payments, and projects.　　*SEPT 2024*

- Development: follows a layered architecture with distinct Presentation, Business, and Data Access layers..
- Features: implements features such as property listing, user management, contract handling, and pagination for efficient data retrieval..
- Performance and Security: Prioritized fast, secure, reliable, scalable, maintainable, and user-friendly features for optimal UX and data protection
- **Technical Skills:** C#, .NET Core, EF Core, Dependency Injection, Repository and Unit of Work patterns, Unit testing with MSTest, Identity framework, Git Commands.
- **Soft Skills:**Teamwork, LeaderShip,Documentation, Debugging and resolving issues, Presentation skills

TensorFlow Flower Image Classifier　　　　　　　　　　　　　　　　　*University*

An image recognition model, Using TensorFlow and Keras, efficiently classifies flower images using data
augmentation, to mitigate overfitting. It demonstrates iterative model improvement by training, testing.　*MAY 2024*

- Utilizes advanced deep learning methodologies to categorize flower images into distinct classes with high precision.
- Incorporates sophisticated techniques such as data augmentation and dropout to optimize model performance, ensuring robustness against overfitting and enhancing generalization capabilities.
- Employs a systematic approach to model refinement through iterative training, and parameter tuning, resulting in continual enhancement of classification accuracy and reliability.
- **Technical Skills :** Python, TensorFlow and Keras, Data Preprocessing, Model Evaluation.
- **Soft Skills:** R&D.

TETRIS　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　*DEPI*

This project is a modern implementation of the classic Tetris game using WPF and C. It features smooth
gameplay, intuitive controls, and a sleek user interface. Perfect for both nostalgic gamers and new　*July 2024*
players alike!

- Development:The project is a Tetris game developed using WPF.NET with C. It includes various classes for different Tetris blocks and game functionalities.
- Features: GameGrid.cs: Manages the Tetris game grid, including layout and cell states.
  GameState.cs: Handles overall game state, score, level, active piece, and game logic.
  Block.cs: Defines Tetris block properties, shape, rotation, and movement logic.
- **Technical Skills:** C#, WPF.NET, OOP, Data Structures,Version Control "GIT"'

Image Reproduction Using Genetic Algorithm

Uses a genetic algorithm to evolve an image over generations, aiming to closely reproduce a target image. It leverages the pygad library for algorithm operations, demonstrating the optimization of image reproduction through evolutionary processes.

July 2024

- Development:Developed customizable parameters for the genetic algorithm, allowing for easy adjustments.
- Achieved a 30 percent reduction in experiment setup time through the framework.
- Integrated a fitness function to assess image similarity.
- Developed a callback function to track progress during the algorithm's execution.
- **Technical Skills:** Python, pygad, gari, numpy, imageio, matplotlib

INhive : Trading

University

Aims to revolutionize investment accessibility by providing a platform equipped with real-time data, trading capabilities, educational resources, empowering informed decisions and navigate the financial markets with confidence.

OCT 2023

- Development: comprehensive to streamline investment, reduce costs, empower informed decision tools.
- Features: real-time monitoring, portfolio management, educational resources, investment simulator.
- Performance and Security: Prioritized fast, secure, reliable, scalable, maintainable, and user-friendly features for optimal UX and data protection
- **Technical Skills:** C#.NET, Windows Form UI, SQL Server
- **Soft Skills:**Teamwork, Time Management, Presentation skills

Work Experience

Freelancer

Egypt

Backend Developer

2024

- Creating awesome applications for customers.
- Developed Custom Solutions: Designed and developed .NET back-end solutions for various clients, including creating APIs, integrating with third-party services, and ensuring scalability and performance.
- Engaged directly with clients to understand their needs, provide technical advice, and deliver tailored solutions. Maintained regular updates and feedback loops to ensure client satisfaction
- **Technical Skills:**C#, .NET Framework, Entity Framework, ASP.NET, MVC, REST API, SwaggerUI , GitHub.
- **Soft Skills:** Teamwork, Time Management,Adaptability, Communication, Presentation skills.

Achievements

Mansora	**Summer Training**, ITI summer Training Program .Net web Developer Track	*Jun-2024*
	BootCamp, Participating at Digital Egypt Pioneers Initiative "DEPI for .NET web development rack	*May 2024*
	contest, Participated as a chess judge for university chess contest representing my student union social committee	*2022*

Education

Kafr El-Sheikh University

Kafr El-Sheikh, EG

Faculty of Computer Science

2021 - 2025 Current

- Computer Science major
- **Courses:** Data structure/& Algorithms, Project management, Software Engineering, Web development, Information Systems, AI/& Machine Learning, Computer networks

DEPI

Hybrid

Digital Egypt Pioneers Initiative

May 2024

- Web Development .Net Track
- **Courses:** Database, MS SQL Server, Advanced C, EF Core, REST API, MVC,N-Tier Architecture, Design Patterns, business English.

ITI

Hybrid

Summer Training

August 2024

- Web Development .Net Track
- **Courses:** Web development, Database, MS SQL Server, Advanced C, Entity Framework, REST API, MVC

Languages

ARABIC — Native proficiency

English — Professional proficiency

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References available upon request.

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