Amir Hooshang Emamjomeh
Software developer & AI Researcher

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SUMMARY

Experienced developer and AI researcher skilled in creating efficient software solutions and developing AI models for behavioral analysis and market predictions. Proficient in C# and Python with a strong foundation in machine learning. Passionate about exploring new technologies, solving complex problems, and continuously learning.

TECHNICAL SKILLS

Programming Languages	C#, Python
Frameworks	.NET Core, ML.NET, TensorFlow, scikit-learn, pandas, Numpy
Tools	Visual Studio, MySQL, Rapidminer, LaTex

PROFESSIONAL EXPERIENCE

AI Research in Human Activity Recognition and Stock Prediction   November 2020 - December 2023
Azad University at Central Tehran   *Tehran, Iran*

· Implementing optimization algorithms in C# and Python helped me gain a deeper understanding of complex problem-solving and algorithmic efficiency. These research projects expanded my knowledge of advanced algorithms and their applications, enhancing my ability to design and optimize systems for various tasks.

Software Developer   November 2008 - October 2021
AndisheVaran   *Karaj, Iran*

· Game Development in Unity: Developed and configured games using C# and Unity, handling all aspects from 3D object design and scripting to sound and animation. This experience honed my skills in creating immersive and engaging game environments.

· Windows Application Development & API Integration: Developed Windows applications using C# and .NET, focusing on UI design, database integration, and API communication. Integrated APIs for real-time updates and data, enhancing application functionality and user experience.

EDUCATION

Master of Computer Engineering   September 2020 - January 2024
Major : Artificial Intelligence and Robotics   *Azad University at Central Tehran, Iran*

· Dissertation : Predicting Stock Prices Using Fuzzy System and Neural Networks (LSTM, CNN)
Ranked 4th among graduates, GPA: 18.1/20

INDEPENDENT PROJECTS

Shabnam   2020-2024

· Developed a C# program for stock market trading on Windows PCs.
· Built the program independently, incorporating various trading tools and algorithms to facilitate actions.
· Utilizes indicators to provide trading suggestions and optimize performance using algorithms such as PSO (Particle Swarm Optimization) and Genetic Algorithm.
· Features a graph for real-time prices, with integrated APIs for cryptocurrency exchanges, enabling users to place orders.
· Comprises three sub-applications: one fetches current prices every 5 seconds and stores them in a MySQL database, another processes the data using indicators and stores it in a Web API, and the main application retrieves and visualizes the data on the graph.

Havan   2021

· Developed a Python program for price prediction using machine learning algorithms such as CNN and LSTM, integrated with a fuzzy system to provide trading grades.
· The fuzzy system helps suggest better trading options based on grading scores.
· This program is designed to be part of the Shabnam system.

Shabnam Mobile Manager   2020

· Developed a prototype application using Xamarin that connects to the Shabnam Web API and runs on iOS. The purpose of this project was to integrate Shabnam with the iOS platform. interactive experience

Social Media Manager   2017-2018

· Developed a PC application to manage Twitter accounts using the Twitter API and Instagram accounts using the Instagram API.
· Created a .NET WebAPI for Twitter account management, enabling automated actions like following, commenting, and retweeting.
· Developed a .NET WebAPI for Instagram account management, automating actions like following, commenting, and viewing stories.