Ali Barzegari dahaj

Computer Engineering Student

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in LinkedIn   Github

Profile

I am a computer engineering student with a deep interest in coding . Proficient in some programming languages and eager to solve technological and algorithmic challenges and seek prosperity in the world of computer science and programming.

Skills

- Teamwork
- Algorithm
- C / C++ / C#
- Java
- Git
- Linux
- SQL

Awards

Third place in the "Soccer 2D Simulation League" in the RoboCup IranOpen 2024
RoboCup IranOpen
04/2024

Education

Bachelor's degree / Computer Engineering
Islamic Azad University, Science And Research Branch 🔗
2022 – present | Tehran, Iran

High School Diploma
National Organization for Development of Exceptional Talents (Sampad)
2015 – 2021 | Tehran, Iran

Organizations

Scientific Association of Computer Engineering
Vice Chairman and Member of the Board of Directors
04/2024 – present

SRBIAU_2D Soccer 2D Simulation Team
Member
01/2024 – present

Languages

- Persian
- English

Projects

SRBIAU_2D Soccer 2D Simulation Team   01/2024 – present
Science and Research University Team

- The SRBIAU2D team developed innovative AI strategies for the RoboCup Soccer Simulation 2D League, built on the Helios base code.
- Developed AI strategies that increased goalkeeper save efficiency by 30% using deep reinforcement learning, optimized pass decisions with machine learning to improve successful pass rates by 20%, and implemented marking and coordinated blocking to reduce opponent scoring chances by 25%.
- Our 'Super Defense' mode, activated during critical game phases, ensures a robust defense to secure leads . By integrating cutting-edge AI and machine learning techniques, we aim to significantly elevate team performance. We demonstrate our dedication to innovation within the RoboCup community and the broader field of AI research in sports simulations.

Pharmacy management system ✐   04/2024 – 07/2024

- Engineered a C#-based pharmacy management system that reduced manual management errors by 50%, enhancing operational accuracy and efficiency.
- The system's key feature is drug inventory management, helping pharmacies maintain accurate stock levels and prevent shortages . The desired pharmacy management system is written in C# programming language.

Algorithm-E-Zi ✐   04/2024 – 07/2024

- This project features algorithms implemented in multiple programming languages.
- Developed a multi-language algorithm resource that increased learning efficiency by 40%, enabling users to understand and implement algorithms with clear performance and time complexity metrics.

volunteering

Head of Sientific Team

SRCPC Committee

- "SRCPC" is an alogorithmic competition that hold every year at Islamic Azad University , Science and Research Branch

Course

Fundamentals Of C++ Programming And Algorithmic Thinking ✐

Quera

How to work with input and output, variables and mathematical expressions, conditionals and loops, functions and recursive functions, arrays, sorting and searching

Version Control With Git ✐

Quera

Git installation and setup, basic commands for Git (such as pull, push and commit), working with branches and merge and rebase commands, diagnosing and correcting errors in the repository, GitHub and Gitlab

Linux operating system ✐

Quera

Basic commands in Linux, commands for working with files and strings, creating and deleting and changing users and groups, access management in Linux, bash scripting language, providing project scripts in bash language

Database and SQL ✐

Quera

Optimized database architecture, streamlining table structures and enhancing data filters and connections, leading to a 40% improvement in data retrieval and processing speed.

Nosql Databases ✐

Quera

mongodb , getting to know redis , graph database in neo4j , work with cassandra database , getting to know elasticseach search engine