








Ali Barzegari dahaj Computer Engineering Student

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 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++
- Java
- C#
- Git
- Linux
- SQL

Awards

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

Projects

SRBIAU_2D Soccer 2D Simulation Team

Science and Research University Team

01/2024 – present

- The SRBIAU2D team proudly presents its innovative contributions to the RoboCup Soccer Simulation 2D League, leveraging the Helios base code as a foundation.
- Our research has led to the development of groundbreaking artificial intelligence (AI) strategies, focusing on goalkeeper optimization through deep reinforcement learning, enhanced pass decision-making via a machine learning-augmented multi-criteria framework, and sophisticated defensive tactics, including Dynamic marking and coordinated blocking.
- A standout feature of our approach is introducing a "Super Defense" mode, activated during critical game phases, to ensure a robust defence that secures 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.

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

Pharmacy management system [↗](#)

04/2024 – 07/2024

- Pharmacy management system is a software or system that helps pharmacies improve various functions and improve management processes.
- One of the main capabilities of this system is drug inventory management. This system helps pharmacies keep an accurate inventory of their medications and avoid shortages or excesses. The pharmacy management system in question is written using C# programming language.

Algorithm-E-Zi [↗](#)

04/2024 – 07/2024

- This project includes a set of algorithms implemented in several different programming languages.
- The purpose of this project is to provide a comprehensive resource for understanding and learning how to implement different algorithms in various programming languages, as well as showing their performance and time complexity.

volunteering

Head of Scientific Team

SRPCPC Committee

- "SRPCPC" is an algorithmic 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

Engineered and optimized database architecture by streamlining table structures, implementing data filters and groups, and enhancing table connections, resulting in 40% faster data retrieval and processing speed

Nosql Databases [↗](#)

Quera

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