Sahel Sabeti

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Age: 22

Education

Bachelor of Science in Computer Science
Amirkabir University, *[2026]*
Currently pursuing studies in Computer Science.

Skills

- **Programming Languages:** C, Java, Basic Android Development
- **Web Security:** Fundamentals of web security
- **Artificial Intelligence:** Basics of AI

Projects

- **CS50 - Readability:** A program developed as part of the CS50 course to calculate the readability score of a text using the *Flesch-Kincaid* formula. The project analyzes a given text to determine the grade level required to understand it.

  GitHub - CS50 Readability

  CS50 - Readability

- **CS50 - Caesar Cipher:** Created a Caesar cipher encryption program as part of the CS50 course. The program takes a text input and a shift value, and then outputs an encrypted message based on a simple substitution cipher.

  GitHub - CS50 Caesar Cipher

  CS50 - Caesar Cipher

- **Shopping Website Console Application:** A console-based shopping website with three user roles: Admin, Customer, and Seller.
  - Features include:
  - A user menu with options to register, log in, and make purchases.
  - Admin access to manage products and view customer transactions.
  - Customers can browse products, register, and make purchases from the shop.

  GitHub - Shopping Website

  Shopping Website

- **Tom and Jerry Maze Search Algorithms:** This project implements search algorithms to navigate a maze in the Tom and Jerry game, with the goal of finding the shortest path for Tom to catch Jerry. The maze consists of white cells that Tom can move through and brown cells representing walls or obstacles. The project uses the following search algorithms:
  - **Breadth-First Search (BFS)**: Explores the maze level by level to find the shortest path.
  - **Uniform Cost Search (UCS)**: Similar to BFS, but it accounts for the cost of moving through different cells.

- **Greedy Search**: A heuristic-based search that explores the maze based on proximity to the goal.
- **A* Search**: Combines the advantages of BFS and Greedy search by considering both the cost and heuristic.

GitHub - Tom and Jerry Maze Search

Tom and Jerry Maze Search Algorithms

Languages

- **Persian:** Native
- **English:** Fluent
- **German:** A1 level

Certificates

Certificates: Please find my certificates attached below.