

# Reyhaneh Hajhashemi

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## About Me

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I am a Computer Science Researcher with a strong background in Artificial Intelligence (AI) in Education, Human-Computer Interaction (HCI), Data Mining, and Theoretical Computer Science. My work focuses on leveraging AI and data analysis to enhance personalized learning experiences and gain deeper insights into human behavior and interaction. Passionate about research-driven innovation, I am currently seeking a remote internship or research assistant opportunity to contribute to cutting-edge projects in these fields. I am particularly interested in interactive systems, AI-driven feedback, social computing, and creativity support tools, and how they can enhance human learning, collaboration, and decision-making.

## Education

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**Amirkabir University Of Technology (Tehran Polytechnic), B.Sc. in Computer Science**

*Sept 2022 – Present*

- GPA: 3.73/4.0

## Publication

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- Jamie, Pooriya, Hajhashemi, Reyhaneh, and Alipour, Sharareh. (2024). "Utilizing ChatGPT in a Data Structures and Algorithms Course: A Teaching Assistant's Perspective". CHI 2025 Late Breaking Work (Accepted). Preprint at arXiv:2410.08899.

## Research Experience

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**Research Assistant: ChatGPT's Impact on Education**, Tehran Institute for Advanced Studies (TeIAS)

*Oct 2023 – Jul 2024*

Under the supervision of Dr. Sharareh Alipour

- Analyzed the potential of ChatGPT in research and teaching domains, focusing on its influence on educational practices.
- Conducted studies, including surveys and interviews, to understand ChatGPT's adoption and utilization by educators.

## Teaching Assistant Experience

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- **Amirkabir University of Technology Tehran Polytechnic**

- **Operating Systems**

*Sep 2024 – Dec 2024*

- Under the supervision of Dr. Ahmad Javadi

- **Data Structures and Algorithms**

*Sep 2024 – Dec 2024*

- Under the supervision of Dr. Mohammad Javadi

- **Operating Systems**

*Jan 2025 – Jun 2025*

- Under the supervision of Dr. Zahra Ghorbanali

- **Sharif University of Technology**

- **Fundamentals of Programming**

*Sep 2024 – Feb 2025*

- Under the supervision of Prof. Marzieh Sadri

- **Fundamentals of Programming**

*Sep 2025 – Present*

- Under the supervision of Dr. Nazari

- **Deep learning**

*Sep 2025 – Present*

- Under the supervision of Dr. Begi

## Projects

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### AI Maze Pathfinding

GitHub Repository

- An Automatic Maze Generator and Solver using Python and DFS/BFS Algorithms.
- Implemented depth-first search (DFS) and breadth-first search (BFS) algorithms for maze generation and solving.
- Tools Used: Python

### SAT Solver

GitHub Repository

- A Python-based solver for Weighted Max-SAT problems using Constraint Satisfaction Problem (CSP) techniques.
- Implemented various heuristics including Minimum Remaining Values (MRV), Most Constraining Variable (MCV), and Least Constraining Value (LCV).
- Tools Used: Python

### Connect Four AI Agent

GitHub Repository

- An academic project implementing an optimal AI agent to play and solve the classic board game Connect Four.
- Developed AI algorithms to optimally play the game and determine winning strategies.
- Tools Used: Python

### Genetic Algorithm TSP Solver

GitHub Repository

- Genetic Algorithm implementation to solve the Traveling Salesperson Problem (TSP) using real-world geographic coordinates.
- Utilized the Djibouti dataset and implemented genetic operators including selection, crossover, and mutation.
- Tools Used: Python

## Certifications

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- Human-Centered Design (Coursera)
- Generative AI in HR - Impact and Application of Gen AI (Coursera)
- Generative AI Automation Specialization (Coursera)
- Advanced Algorithmic Thinking and Data Structures (Quera)
- Advanced Python Programming (Quera)
- Fundamentals of C/C++ Programming and Algorithmic Thinking (Quera)
- Big Data in Education (edX)

## Practical Skills

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- Programming languages: Python, C / C++ , R
- Proficient in algorithm design and data structures
- Knowledge of HCI principles
- Web Design
- AI and Machine Learning : AI-driven feedback systems, Generative AI
- Data Analysis
- Image Processing
- Experience with different operating systems: Linux, Windows, macOS

## Languages

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- Persian
- English