

Helai Vafaei, Computer Engineer

Tehran, Iran, 09912909125, h.vafaie123@gmail.com

LINKS

[LinkedIn](#), [GitHub](#), [Personal website](#)

EDUCATION

Oct 2020 – Sep 2024	B.Sc. in Computer Engineer, Iran University of Science And Technology Among the top 4 universities in Iran according to QS University Rankings GPA: <ul style="list-style-type: none">Last two years: 4.0/4.0 (18.80/20.0) on Iranian ScaleOverall: 3.61/4.0 (17.25/20.0) on Iranian Scale	Tehran, Iran
Sep 2016 – Set 2020	Diploma in Mathematics and Physics, Roshangaran High School Overall Grade: 19.34/20 on Iranian Scale	Tehran, Iran

SKILLS

Programming Languages:
Python, React, HTML, CSS, JavaScript, C++, C#, C, SQL
Libraries and Frameworks:
React, Bootstrap, .Net, Django
Other:
Git, Azure Devops, Linux, Bash

RESERCH INTEREST

Software Engineering
Artificial Intelligence
Software Verification and Testing
Programming Languages and Compilers
Empirical Software Engineering
Software Models and Architectures
Object-Oriented Analysis and Design

SELECTED PROJECTS

NoWaste site:
This project has been developed as a 7-member team project with expertise in [front-end](#) and [back-end](#) development. In this project, restaurants offer their food with desired discounts for sale. Users can access the page of a restaurant by viewing the restaurants, add their desired food to the shopping cart by viewing its menu, and make online payments. They can then rate the restaurant, leave comments, and add he restaurant to their favorites list. Finally, users can use the chat page between themselves and the restaurant manager to address their questions.

Anti-spoofing algorithm:

The goal of this project is to develop an anti-spoofing algorithm for detecting the aliveness of a face in a video. The algorithm takes a frame from the video and determines whether the image is of a live person or not. For example, it checks if the image is a makeup or a printed photo of the person, if it is being displayed from another device, etc. These algorithms fall into two main categories:

- Feature extraction-based methods (frequency, texture, depth information, vital signs)
- Deep learning-based methods (domain-based, transfer learning, feature fusion)

HONORS AND CERTIFICATION

Jul 2022	Ranked within the Top 1% in Iranian University Entrance Exam
Oct 2020	Programming for Everybody (Getting Started with Python), Coursera
Jul 2022	Algorithms on Strings, Coursera
Mar 2022	Algorithms on Graphs, Coursera
Dec 2021	Data Structures, Coursera
Nov 2021	Algorithmic Toolbox, Coursera

ACADEMIC EXPERIENCE

Oct 2023 – May 2024	Honorary Member Voluntary work in Computer Engineering Scientific Association at Iran University of Science and Technology (CESA IUST)
Feb 2024 – Jul 2024	Teaching Assistant Course: Data transmission Instructor: Dr. Marzieh Sheikhi Semester: Winter 2024
Jan 2023 – Jun 2023	Teaching Assistant Course: Artificial intelligence Instructor: Dr. Arash Abdi Semester: Fall 2023
Feb 2023 – Jul 2023	Teaching Assistant Course: Database design Instructor: Dr. Hossein Rahmani Semester: Winter 2023
Set 2022 – Jan 2023	Teaching Assistant

	Course: Fundamentals of Computer Programming Instructor: <u>Dr. Marzieh Davoodabadi Farahani</u> Semester: Fall 2022
Feb 2022 – Jul 2022	Teaching Assistant Course: Advanced Computer Programming Instructor: <u>Dr. Sauleh Eetemadi</u> Semester: Winter 2022
Sep 2021 – Jan 2022	Teaching Assistant Course: Advanced Computer Programming Instructor: <u>Dr. Sauleh Eetemadi</u> Semester: Fall 2021
INTERSHIP	
Aug 2023 – Sep 2023	Front-end Developer, Megamouj-e Iranian Iranian Megamoj Company is a first-class manufacturing and industrial knowledge-based company in the field of telecommunications and computers. My main responsibilities included designing and developing various sections of the Eskab (School Service System) website.
LANGUAGES	
	Persian: Native Proficiency English : Full Professional Proficiency IELTS Score: To be taken soon
REFERENCES	
	Dr. Sauleh Eetemadi: Assistant Professor in Department of Computer Engineering of IUST sauleh@iust.ac.ir Dr. Mehrdad Ashtiani: Assistant Professor in Department of Computer Engineering of IUST m_ashtiani@iust.ac.ir