

# Helia Vafaei, Computer science student

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## LINKS

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

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## EDUCATION

Oct 2020 – Sep 2024

**B.Sc. in Computer science, Iran University of Science and Technology**

Tehran, Iran

Among the top 4 universities in Iran according to

[QS University Rankings](#)

GPA:

- Last two years: **3.55/4.0 (17.14/20.0)** on Iranian Scale)
- Overall: **3.51/4.0 (17.16/20.0)** on Iranian Scale)

Sep 2016 – Set 2020

**Diploma in Mathematics and Physics, Roshangaran High School**

Tehran, Iran

Overall Grade: **3.91/4.0 (19.34/20)** on Iranian Scale)

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## 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

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## SKILLS

**Programming Languages:**

Python, React, HTML, CSS, JavaScript, C++, C#, C, SQL

**Libraries and Frameworks:**

React, Bootstrap, .Net, Django, Keras, TensorFlow, Numpy

**Environmental and Tools:**

Git, Azure Devops, Linux, Bash, Postman

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## SELECTED PROJECTS

**NoWaste:**

- Participated as a [Front-end](#) developer in developing NoWaste, a web application aimed at minimizing food waste by connecting restaurants and cafes with surplus food to potential consumers.
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- Designed and implemented RESTful APIs to facilitate efficient data exchange between frontend and backend systems.
- Dockerized the application to streamline deployment and ensure consistency across development and production environments.
- Developed and maintained CI/CD pipelines, automating testing, building, and deployment processes to enhance development efficiency and ensure robust application delivery.

#### Anti-spoofing algorithm:

- [The project](#) was for checking whether a face in the video is alive or not.
- In this project, two different models, including a feature-based and a deep learning model, were used.
- For the feature-based model, SVC was used.
- For the deep model, VGG16 and some extra un-pretrained layers were used.
- The data came from CASIA-FASD.

#### Computer system security project:

- The main aim of [this project](#) is retrieving information from the victim device using Bash in Linux and displaying it in a simple website.

#### Software quality measurement and it's quantification:

- By running [this project](#), the quality of a software can be measured quantitatively. In the software quality article, factors are presented that depend on a number of criteria, but the criteria is qualitative, so we use a number of metrics to achieve a quantity.

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## HONORS AND CERTIFICATION

Oct 2024	Ranked within <b>the Top 10% among about 100</b> in my class in GPA at Iran University of Science and Technology
Jul 2022	Ranked within <b>the Top 1% among about 155000</b> in Iranian University Entrance Exam
Oct 2023	Programming for Everybody (Getting Started with Python), <a href="#">Coursera</a>
Jul 2022	Algorithms on Strings, <a href="#">Coursera</a>
Mar 2022	Algorithms on Graphs, <a href="#">Coursera</a>
Dec 2021	Data Structures, <a href="#">Coursera</a>
Nov 2021	Algorithmic Toolbox, <a href="#">Coursera</a>

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## ACADEMIC EXPERIENCE

#### Honorary Member

- Voluntary work in Computer Engineering Scientific Association at Iran University of Science and Technology (CESA IUST) – Fall 2023

#### Teaching Assistant

- Data transmission – Instructor: [Dr. Marzieh Sheikhi](#) – Winter 2024
  - Artificial intelligence – Instructor: [Dr. Arash Abdi](#) – Fall 2023
  - Database design – Instructor: [Dr. Hossein Rahmani](#) – Winter 2023
  - Fundamentals of Computer Programming – Instructor: [Dr. Marzieh Davoodabadi Farahani](#) – Fall 022
  - Advanced Computer Programming – Instructor: [Dr. Sauleh Eetemadi](#) – Winter 2022
  - Advanced Computer Programming – Instructor: [Dr. Sauleh Eetemadi](#) – Fall 2021
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## WORK EXPERIENCE

Jul 2024 – present

**Teacher, Farzanegan High School**

- Farzangan High School is one of the high schools of the National Organization for the Development of Talents ([SAMPAD](#)).
- I have been working as programing computer teacher.

Aug 2023 – Sep 2023

**Front-end Developer, Megamouj-e Iranian**

- Iranian Megamouj 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.

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## LANGUAGES

**Persian:** Native Proficiency

**English :** Full Professional Proficiency      IELTS Score: To be taken soon

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## REFERENCES

**Dr. Sauleh Eetemadi:**

- Assistant Professor in Department of Computer Engineering of IUST
- [sauleh@iust.ac.ir](mailto:sauleh@iust.ac.ir)

**Dr. Mehrdad Ashtiani:**

- Assistant Professor in Department of Computer Engineering of IUST
- [m\\_ashtiani@iust.ac.ir](mailto:m_ashtiani@iust.ac.ir)

**Dr. Marzieh Malekimajd:**

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