

## Education

**IUST University** (among the top 4 universities in Iran)

Tehran, Iran

**B.Sc. in Computer Engineering** at Iran University of Science & Technology

2021 – Feb 2026

- Thesis: **Predicting RNA 3D Structures from Sequence Using Machine Learning**
- GPA of the Last Two Years: **3.66/4.0** (17.37/20.0 in Iranian Scale)
- Ranked Among **Top 10%** GPA in my class
- Selected Courses: Algorithms (A+), Computational Intelligence (A), Microprocessor and Assembly Languages (A), Signals and Systems (A), Engineering Probability and Statistics (A), System Analysis and Design (A), Operating Systems (A–)

**High School Diploma - Biology**

Rafsanjan, Iran

National Organization for Development of Exceptional Talents (**Sampad**)

2014 – 2018

- **GPA: 4/4**
- **Sampad** recruits students for middle and high schools through a two-step set of exams at each level. The organization aims to provide a unique educational environment for exceptionally talented students.

## Research Interests

- Machine Learning for Biology
- Computational Biology
- Bioinformatics
- Drug Discovery
- RNA and Protein Structure Prediction
- Deep Learning in Healthcare

## Publications

**Predicting RNA 3D Structures from Sequence Using Machine Learning**

in Preparation

Authors: Ali Alizadeh, Reza Entezari-Maleki

## Research Experience

**Research Assistant in Dr. Entezari's Lab**

IUST University

Bachelor Thesis, School of Computer Engineering

Sept 2024 - present

- Supervisor: Dr. Reza Entezari-Maleki
- Worked on a variety of academic projects
- Academic paper: Predicting RNA 3D Structures from Sequence Using Machine Learning
- Developed and implemented machine and deep learning models for RNA-related research, using frameworks such as PyTorch, PyTorch Geometric, Keras, TensorFlow, Scikit-learn and Pandas

## Skills

- **Programming Languages and Technologies:** Python, Golang, C, C++, C#, Js, SQL, PostgreSQL
- **Libraries and Frameworks:** PyTorch, PyTorch Geometric, Keras, TensorFlow, Scikit-learn, OpenCV, NumPy, Pandas, Matplotlib, Django, React.js
- **Environments and Tools:** Linux (Ubuntu), Git, Postman, Docker, Terraform, Bash

## Teaching & Industrial Experience

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### Teaching Assistant

School of Computer Engineering

IUST University  
Sept 2022 - Jan 2026

- **Fundamentals of Programming** - Instructor: Dr. Mehrdad Ashtiani - Spring 2025
- **Advanced Programming** - Instructor: Dr. Marzieh Maleki - Spring 2025
- **Computer Architecture** - Instructor: Dr. Mehdi Hosseini Monazzah - Spring 2025
- **Design and Analysis of Algorithms** - Instructor: Dr. Farzaneh Ghayour Baghbani - Spring 2025
- **Operating system lab** - Instructor: Dr. Reza Entezari-Maleki - Spring 2025
- **System Analysis and Design** - Instructor: Dr. Mehrdad Ashtiani - Fall 2024
- **Formal Languages and Automata Theory** - Instructor: Dr. Farzaneh Ghayour Baghbani - Spring 2024
- **Principles of Database Design** - Instructor: Dr. Hossein Rahmani - Spring 2024
- **Fundamentals of Programming** - Instructor: Dr. Tayebe Rafiei - Fall 2022

### Software Engineer Intern

Back-End Developer Internship

System Group, Tehran  
Summer 2024

- **Technologies:** C# and .NET Framework

## Projects

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### NoCodi.ir

Software Engineering Course Project – [Nocodi.ir](#)

IUST University  
Spring 2025

- Implemented the Website using Scrum methodology with integrated CI/CD pipelines.
- Frontend implemented with React.js – [GitHub](#)
- Backend implemented with Django – [GitHub](#)

### Seven apply

System Analysis and Design Course Project

IUST University  
Spring 2024

- Developed using Scrum methodology.
- Frontend implemented with React.js – [GitHub](#)
- Backend implemented with Django – [GitHub](#)

### XV6 System Call

Operating Systems Course – [GitHub](#)

IUST University  
Fall 2023

- Add threading support to XV6 using C

## Honors & Certificates

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### Among top 10% in My Class in GPA(last two years:17.37/20)

School of Computer Science, IUST

Sept 2021 - Present

- Class of 110 students

### Ranked Within the Top 0.5% in Iranian University Entrance Exam

Mathematics and Physics majors

Spring 2025

- Ranked **175** among 127000 students

### Scored above 1000 on Codeforces and solved over 100 algorithm problems on LeetCode Dec 2024

Profile available on [Codeforces.com](#)

Profile available on [leetcode.com](#)

- Demonstrated strong problem-solving skills and proficiency in algorithms and data structures.

### Finalist – Irancell Labs Artificial Intelligence Hackathon

Certificate available on [Quera.org](#)

Sept 2023

- Selected as a finalist for demonstrating strong skills in developing and optimizing AI models.

### **Introduction to Deep Learning with PyTorch**

Fall 2024

Certificate on [DataCamp](#)

- Includes courses on Deep learning with PyTorch.

### **Introduction to Machine Learning**

May 2025

Certificate on [Kaggle](#)

- Includes courses on Machine learning with scikit-learn.

### **CS50: Introduction to Computer Science**

Summer 2021

Certificate on [CS50](#)

- Includes courses on Data Structures, Algorithms, SQL, Python, Web Development, CSS, HTML, and JavaScript.

## **Standardized Tests**

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- **TOEFL iBT:** Planning to take on September 27<sup>th</sup>, 2025
- **GRE:** Planning to take on November 2<sup>nd</sup>, 2025

## **References**

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### **Dr. Reza Entezari-Maleki**

Assistant Professor at Department of Computer Engineering

- Email: entezari@iust.ac.ir

Iran University of Science & Technology

### **Dr. Nasser Mozayani**

Associate Professor at Department of Computer Engineering

- Email: mozayani@iust.ac.ir

Iran University of Science & Technology

### **Dr. Mehrdad Ashtiani**

Associate Professor at Department of Computer Engineering

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