Ali Alizadeh

 Portfolio
✉ alializadeh.dev10@gmail.com
in Linkedin
 Github

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

Teaching Assistant   IUST University
School of Computer Engineering   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   System Group, Tehran
Back-End Developer Internship   Summer 2024

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

Projects

NoCodi.ir   IUST University
Software Engineering Course Project – Nocodi.ir   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   IUST University
System Analysis and Design Course Project   Spring 2024

- Developed using Scrum methodology.
- Frontend implemented with React.js – GitHub
- Backend implemented with Django – GitHub

XV6 System Call   IUST University
Operating Systems Course – GitHub   Fall 2023

- Add threading support to XV6 using C

Honors & Certificates

Among top 10% in My Class in GPA(last two years:17.37/20)   Sept 2021 - Present
School of Computer Science, IUST

- Class of 110 students

Ranked Within the Top 0.5% in Iranian University Entrance Exam   Spring 2025
Mathematics and Physics majors

- 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   Sept 2023
Certificate available on Quera.org

– 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

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

References

Dr. Reza Entezari-Maleki Iran University of Science & Technology
Assistant Professor at Department of Computer Engineering

– Email: entezari@iust.ac.ir

Dr. Nasser Mozayani Iran University of Science & Technology
Associate Professor at Department of Computer Engineering

– Email: mozayani@iust.ac.ir

Dr. Mehrdad Ashtiani Iran University of Science & Technology
Associate Professor at Department of Computer Engineering

– Email: m_ashtiani@iust.ac.ir