

Keivan Rezaei

kerezaei@ce.sharif.edu
k1rezaei78@gmail.com

LinkedIn

Education

- **Sharif University of Technology**, Tehran, Iran September 2018 - Present
Bachelor of Science, Computer Engineering **GPA : 19.92 / 20, Rank 2nd**
Relevant courses: Artificial Intelligence: 20, Modern Information Retrieval: 20,
Linear Algebra: 20, Probability and Statistics: 20
Design of Algorithms: 20, Data Structures: 20,
General Math: 20, Introduction to Bio Informatics: 20
- **Young Scholars Club**, Tehran, Iran 2017 - 2018
Official Preparation for International Olympiad in Informatics 2018
Studied courses: Combinatorics, Adv. Data Structures, Linear Algebra
- **Allame Helli High School**, Tehran, Iran 2014 - 2016
Mathematics and Physics Dicipline
School is affiliated with the National Organization for Development of Exceptional Talents (NODET)

Research Experience

- **Summer Internship at EPFL**, Theory of Machine Learning (TML) Lab, *Summer 2021*
 - * Research on last iterate convergence of stochastic gradient descent in interpolation regime at non-strongly convex setting.
 - * The aim of that project was to improve convergence rate by using Nesterov method.

under supervision of Prof. **Nicolas Flammarion**.
- **Summer Internship at Max Planck Institute**, *Summer 2020*
 - * Research on solving semi-definite programming based on Physarum mathematical model.
 - * The aim of that project was to derive an algorithm to solve SDP problem based on Physarum model and prove its convergence.

under supervision of Prof. **Andreas Karrenbauer**.
- **Bachelor Project**, *Fall 2021*
 - * Survival prediction of oral cancer patients based on medical data.
 - * The aim of that project is to find and develop a learning model that predicts accurately, also finding a good way to augment data to become able to use complex models.

under supervision of Prof. **Mahdieh Soleymani Baghshah**.

Honors and Awards

- ACM-ICPC
 - **32nd Team**, *ICPC World Finals 2020, Moscow*
 - **1st Team**, *Asian Regionl Contest 2019, Tehran*, Proceeding to ICPC World Finals 2020
 - **2nd Team**, *Asian Regionl Contest 2018, Tehran*
 - **3rd Team**, *Asian Regionl Contest 2020, Tehran*
- Informatics Olympiads
 - **Silver Medal**, *IOI 2018*
30th International Olympiad in Informatics, Tsukuba Ibrakai, Japan

- **Gold Medal, *INOI 2017***
27th Iranian National Olympiad in Informatics, Tehran, Iran
- **Silver Medal, *APIO 2018***
12th Asia-Pacific Informatics Olympiad, hosted by Russia
- **Bronze Medal, *APIO 2017***
11th Asia-Pacific Informatics Olympiad, hosted by Australia
- **Silver Medal, *INOI 2016***
26th Iranian National Olympiad in Informatics, Tehran, Iran

Teaching Experience

- **Teaching Assistant in Data Structures and Algorithms, *Fall 2019, 2021***
Head of teaching assistants and responsible for defining and evaluating theoretical and practical assignments.
- **Teaching Assistant in Design of Algorithms, *Fall 2020, 2021***
Responsible for defining and evaluating practical assignments.
- **Teaching Assistant in Compiler Design, *Fall 2020***
Responsible for defining and evaluating final projects.
- **Algorithms Instructor, *Allame Helli Highschool and many other high schools***
Responsible for teaching and assessment of students preparing for INOI exams.

Volunteer Experience

- **Member of INOI Committee, *Fall 2019 - Present***
 - * **Iran's Team Leader at IOI 2021.**
 - * Responsible for designing exams to select talented students.
 - * Responsible for conducting camps for preparing students.
 - * Affiliated with ministry of Education.
- **Sharif AI Challenge, *Fall 2019, Fall 2020***
 - * Responsible for developing server and simulating game.
 - * Responsible for designing game.
- **Head Of Quera College Data Structure Course, *Spring 2019***
Responsible for providing educational materials.

Languages

- Persian (Native)
- English (Fluent - TOEFL [R=30, L=30, S=24, W=28])

Skills

- **Programming Languages**, proficient with C++/ Python/ Java and many other languages.
- **Linux**, Experienced in Linux shell and Bash scripts.
- **Algorithms and Competitive Programming**, as IOI and ICPC awards suggest.
- **Software Engineering**, familiar with object-oriented design patterns and other development methodologies.

Last update : Monday 1st November, 2021