

Ali Safary

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Education

Bachelor, Computer Engineering

Sharif University of Technology • Tehran, Iran

Sep. 2021 – Present

- GPA: 18.01/20.00

Awards & Honors

- Gold Medal, Iranian Olympiad in Informatics (2019, 2020)
- Gold Medal, International Olympiad in Informatics (2020)
- Silver Medal, International Olympiad in Informatics (2021)
- ICPC Asia Tehran Regional Contest Champion (2022, 2023, 2024)
- ICPC World Finals 2024, Asia-West Champion; 23rd worldwide
- ICPC World Finals 2025, Asia-West Champion; 16th worldwide
- Codecup Algorithm Track Winner (2022)
- Codeforces Legendary Grandmaster (top $\sim 0.01\text{--}0.05\%$ of contestants, currently ranked 70th worldwide)

Experience

Contest Coordinator

Quera • Tehran, Iran

Jun. 2025 – Nov. 2025

- Prepared algorithmic programming contests, including the international Technology Olympiad selection and final rounds.

Full-Stack Intern

Rahnema College • Tehran, Iran

Jun. 2017 – Sep. 2017

- Developed an Android social media application with a location-based feed of nearby posts, using Node.js for the backend and React Native for the frontend.
- Collaborated with a team of 6 technical members on the design and implementation of core features.

Projects

C-Minus Compiler

2023

[GitHub](#)

- Implemented a compiler for a minimal subset of C++, named *C-Minus*.
- Implemented calling convention handling, scanner, and lexical analyzer components.

State.io

2021

[GitHub](#)

- Implemented a graphical strategy game in C using the SDL2 library.
- Used Voronoi diagrams for random map generation.

Graph Theory for Olympiad in Informatics

2021

[GTOI](#)

- Wrote a graph theory book in Persian for Informatics Olympiad students.
- Implemented reference C/C++ code for the algorithms presented in the book.

Civilization V

2022

[GitHub](#)

- Implemented a graphical strategy game in Java using the JavaFX library.
- Used socket programming to implement networking features.

Teaching Experiences

Teacher

Nov. 2019 – Present

Informatics Olympiad Teacher

Tehran, Iran

- Allameh Helli 1 High School
- Farzanegan 1 High School
- Allaeh Tabatabaei High School
- Alborz High School
- Taught national team preparation camps and gold-medalist training camps for the Iranian IOI team.
- Trained Olympiad students earning 7 IOI gold medals and 9 IOI silver medals.

Tutor

Nov. 2023 – Present

Informatics Olympiad Teacher

Tehran, Iran

- Mentored students who achieved 2 IOI silver medals, 1 IOI bronze medal, and 5 INOI¹ gold medals.

Deputy Leader

Jun. 2024 – Sep. 2024

International Olympiad in Informatics

Alexandria, Egypt

- Helped lead the Iranian team to 9th place overall with 1 gold, 2 silver, and 1 bronze medal.

Contest Designer

Jun. 2021 – Present

Competitive Programming Contests

- Problem designer for INOI medal selection contests (2021, 2022, 2023).
- Problem designer for INOI team selection contests (2022, 2023, 2024).
- Tabriz University ICPC bootcamp training contest designer and editorialist.
- Designed ICPC online contest for the Asia Tehran site.

Teaching Assistant

Sep. 2022 – Present

Sharif University of Technology

Tehran, Iran

- Data Structures and Algorithms (Fall 2022, Spring 2023, Fall 2024)
- Design of Algorithms (Spring 2023, Fall 2025)
- Fundamentals of Programming (Fall 2024)
- Discrete Structures (Spring 2023)
- Theory of Machines and Languages (Fall 2023)

Skills

Programming Languages: C/C++, Python, Java, JavaScript

AI/ML Frameworks: PyTorch, Keras, NumPy, Pandas, scikit-learn

Web Technologies: Django, React, Spring Boot, Node.js

Databases: PostgreSQL, MongoDB

Tools: Git, CMake, Docker, Linux, GDB, L^AT_EX

Selected Coursework

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| • Massive Data Algorithms (20.0 / 20.0) | • Theory of Machines and Languages (20.0 / 20.0) |
| • Machine Learning (20.0 / 20.0) | • Graph Theory (19.5 / 20.0) |
| • Game Theory (20.0 / 20.0) | • Design of Algorithms (20.0 / 20.0) |
| • Data Structures and Algorithms (20.0 / 20.0) | • Discrete Structures (20.0 / 20.0) |

Last updated: November 25, 2025

References available upon request.

¹Iranian National Olympiad in Informatics