

# Behzad Nabavi

Department of Computer Engineering,  
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## EDUCATION

### Sharif University of Technology

Bachelor of Computer Engineering; Cumulative GPA: 18.97/20.00

Tehran, Iran

Sep. 2020 - Present

### Allameh Helli Pasdaran High School

Affiliated with National Organization for Development of Exceptional Talents (NODET)

Diploma in Mathematics and Physics; GPA: 19.60/20.00

Tehran, Iran

Sep. 2017 - Sep. 2020

## RESEARCH INTERESTS

- Computational Social Choice
- Mechanism Design
- Network Science
- Algorithmic Game Theory
- Auction Theory
- Learning-augmented Algorithms

## RESEARCH EXPERIENCE

### Sharif University of Technology

Sep. 2024 - Present

Research Assistant under the supervision of Prof. Hamid R. Rabiee

- Worked in the Data Science and Machine Learning Lab (DML) on debiasing LLMs for fact-checking through democratic and republican perspectives and achieving fairness.

### Tehran Institute for Advanced Studies (TEIAS)

Sep. 2023 - Present

Research Assistant under the supervision of Prof. Masoud Seddighin

- Collaborated with Golnoosh Shahkarami from the Max-Planck Institute (MPI) to address the metric distortion problem through the learning-augmented framework and improved the consistency-robustness trade-off for the randomized voting rules.

### University of Michigan

Jun. 2023 - Apr. 2024

Research Intern under the supervision of Prof. Grant Schoenebeck

- Worked on modeling the conference peer review process as a Stackelberg game, analyzing and comparing different conference designs using key metrics such as review burden, conference value, and average author utility. This work has resulted in the working paper 'Conference Design With Strategic Authors'. [Preprint]

### Institute for Research in Fundamental Sciences (IPM)

Jun. 2023 - Sep. 2023

Research Assistant under the supervision of Prof. Samira Hossein Ghorban

- Assisted in developing lecture notes for the Game Theory course, conducted research and literature reviews to ensure the accuracy and comprehensiveness of the lecture notes.

## HONORS AND AWARDS

### Nationwide University Entrance Exam

Aug. 2020

Mathematics and Physics, Ranked 206<sup>th</sup> (Among +155,000)

### Iranian National Physics Olympiad

Aug. 2019

Bronze Medal

## TEACHING EXPERIENCE

### Numerical Computation, Instructor: Prof. Samira Hossein Ghorban

Fall 2023, Fall 2024

Teaching Assistant

### Scientific and Technical Presentation, Instructor: Prof. Shohreh Kasaei

Spring 2024, Fall 2024

Teaching Assistant

### Algorithmic Game Theory, Instructor: Prof. Masoud Seddighin

Spring 2023, Spring 2024

Head Teaching Assistant of Coding Assignment

- Created video lectures for Linear Programming workshop.
- Collaborated on course projects' desing and implementation.
- Held quizzes and graded the papers.

### Machine Learning, Instructor: Prof. Fatemeh Seyedsalehi

Spring 2024

Teaching Assistant

### Game Theory, Instructor: Marzie Nilipour

Spring 2023

Teaching Assistant

### Compiler Design, Instructor: Samaneh Hosseinmardi

Spring 2023

Teaching Assistant

**Probability and Statistics**, Instructor: Prof. Ali Sharifi-Zarchi  
Teaching Assistant

Fall 2022

**Fundamentals of Programming**, Instructor: Alireza A. Mohammadi  
Teaching Assistant

Spring 2022

## RELEVANT COURSEWORK

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- Game Theory (Coursera)
- Algorithms Design (18.2/20)
- Artificial Intelligence (20/20)
- Convex Optimization (18.8/20)
- Principles of Economics (20/20)
- Advanced Programming (20/20)

## WORK EXPERIENCE

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### Cafe Bazaar

Software Engineer

Tehran, Iran

Jul. 2022 - Jan. 2023

- Worked in one of the largest tech companies in Iran as a software engineer, developed an online wallet and payment system used by Bazaar App Store, which provides service to thousands of users.

### Allameh Helli Pasdaran High School

Head of Physics Olympiad Department

Tehran, Iran

Sep. 2020 - Sep. 2021

- Instructed Calculus and Electrodynamics and prepared talented high school students for participating in National Physics Olympiad.

## OTHER EXPERIENCES

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### 8th Winter Seminar Series in Advanced Topics of Computer Science

Executive Staff

Feb. 2023 - Apr. 2023

### AI Challenge

Marketing and Executive Staff

Feb. 2022 - Aug. 2022

### 7th Winter Seminar Series in Advanced Topics of Computer Science

Media and Executive Staff

Dec. 2021 - Feb. 2022

### Cultural Studies Group

Committee Member

Dec. 2021 - Present

### Rayanesh (Department's Journal)

Committee Member

Nov. 2021 - Present

## PROJECTS

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**MIPS CPU:** Implemented MIPS ISA with Verilog programming language for Computer Architecture project.

**Graph Clustering:** Implemented graph clustering with Python programming language for Linear Algebra project.

**Crypto Alert:** Implemented Cryptocurrency Alert System with Java programming language.

**Yu-Gi-Oh!:** Replicated Yu-Gi-Oh! card game with Java programming language for Advanced Programming project.

## SKILLS

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**Programming Languages:** Python, R, Java, C/C++, Go, Verilog, MIPS Assembly

**Tools:** Docker, Kubernetes, L<sup>A</sup>T<sub>E</sub>X, Version Control

**Languages:** Persian(Native), English (Fluent)