

# Sobhan Moghimi

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## EDUCATION

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### Amirkabir University of Technology

2020-present

Bachelor of Science Candidate; Major in Computer Science

Tehran, Iran

- Awards: Rank 4th among more than 75 students until now.
- GPA: 4/4 (19.05 / 20) via 113 units

### National Organization for Development of Exceptional Talents(NODET)

2017-2020

High School Diploma

Amol, Mazandaran

- GPA: 19.36 / 20

## RESEARCH EXPERIENCE

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### Research Intern

Jul 2022 – Dec 2022

Institute for Research in Fundamental Sciences (IPM)

Tehran, Iran

- Worked under the supervision of Dr.Nezam Rohbani.
- Achieved more than 95% accuracy in smoke detection by leveraging CNNs and Transformers for computer vision, and implemented 3D-CNN models to process large video sequences for real-time application.

**Technologies and Skills:** Python, PyTorch, Tensorflow, Deep Learning, CNN

## WORK EXPERIENCE

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### Blockchain Developer

June 2023 – Present

Panta Chain

Tehran, Iran

- Developed services for investigating Centralized Exchanges Bitcoin addresses, which resulted in finding more than 10,000 addresses of the top five Iranian exchanges.
- Researched graph algorithms to achieve a risk score management system for blockchain addresses.

**Technologies and Skills:** Blockchain, Web3, Python, Postgresql, Apache Kafka

### Software Engineer

Feb 2023 – April 2024

Invex Exchange

Tehran, Iran

- Architected blockchain-integrated APIs on Invex Exchange main server; optimized blockchain data synchronization, achieving more than 50% reduction in transaction validation duration and ensuring seamless user experience.
- Developed back-end for transaction management and automation of cryptocurrencies and Fiat deposits and withdrawals.
- Developed a microservice to get prices of cryptocurrencies with a transaction speed of less than 10 milliseconds on average.

**Technologies and Skills:** Python, gRPC, Web3, Blockchain, Postgresql, Apache Kafka, FastAPI

## TEACHING EXPERIENCE

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### Undergraduate Teaching Assistant at the Sharif University of Technology Machine Learning for Bioinformatics (Graduate Course) | Spring 2023

Tehran, Iran

- Course instructor: Dr.Ali Sharifi-Zarchi
- Mentored about 25 students.
- Designed a coding contest based on MLP and Clustering with updated datasets through the internet.
- Designed assignments, working with RNA-seq datasets and clustering.

### Undergraduate Teaching Assistant at the AmirKabir University of Technology

Tehran, Iran

- During these courses, I've created assignments, held workshops, and created course materials for some courses depending on my role, helping with more than 50 students in each course on average.

#### Courses list:

- Computer Networking | Dr.Mohammad Hassan Shirali-Shahreza | Spring 2024
- Computer Networking | Dr.Fatemeh Ziaeetabar | Spring 2024
- Advanced Programming | Prof.Mehdi Ghatee | Spring 2024
- Artificial Intelligence and Workshop | Prof.Mehdi Ghatee | Fall 2023
- Image Processing | Instructor: Dr. Mostafa Shamsi | Spring 2023
- Introduction to the Theory of Computation | Dr.Farzad Didehvar | Fall 2022
- Introduction to Programming | Dr.Farzad Didehvar | Fall 2022
- Advanced Programming | Dr.Mohammad Mahdi Bejani | Fall 2022
- Advanced Programming | Dr.Mohammad Asgaripour | Spring 2021

## Interests

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- Blockchain, Cryptocurrencies and DeFi
- Software Engineering
- Distributed Systems
- Big Data
- Machine Learning

## Skills

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- **Programming Languages:** Python, Solidity, C++, Java, C
- **Software and Tools:** Postgresql, Apache Kafka, Django, Django Rest Framework, Tensorflow & Keras, Pytorch, Data Handling (Numpy, Pandas, ...), Data Visualisation (Matplotlib, Seaborn, ...), Latex, Git, Github
- **Operating Systems:** Linux, Windows
- **Languages:** Persian (native), English (fluent)

## Volunteer Work

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### Halgheh AUT

Apr 2022 – March 2023

Head of Computer Science Chapter

Tehran, Iran

- Halgheh is a scientific magazine organized by the Scientific Association of Mathematics and Computer Science of Amirkabir University of Technology students.
- As the head of the computer science chapter, I led more than 30 people, including the scientific team responsible for reviewing articles and brainstorming article titles, authors, and the editorial and graphics teams.

## Computer Webinar Series

Technical and Executive Team Member

Technical Team member

Tehran, Iran

May 2022 – Sep 2022

Dec 2021 – Apr 2022

- CWS(Computer Webinar Series) is an event held by the Scientific Association of Math & CS of AUT. The webinars were participated by more than 4200 people in the first and more than 9000 in the second phase.
- Designed the website which was viewed by more than 100 people daily and more, and organized webinars.

## Nowbahar Contest

Tehran, Iran (Remote)

Algorithm Contest Designer

MAR 2022

- Organized the algorithm contest including more than 6 questions, which was participated by more than 600 people.

## Personal Projects

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- Action Recognition on UCF101 dataset, using 3D-CNN:  
<https://github.com/SobhanMoghimil/3D-CNN-on-UCF101>
- Multi-Language Communication:  
<https://github.com/SobhanMoghimil/multi-language-communication>
- Expense Sharing App:  
<https://github.com/SobhanMoghimil/Expense-Sharing-App>

## LICENSES AND CERTIFICATES

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- CS229: Machine Learning: Course Website
- Neural Networks and Deep Learning: Certificate

## ACHIEVEMENTS, HONORS, AND AWARDS

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- Ranked 4th among Computer Science students of the Amirkabir University of Technology until now.
- Ranked 663rd (Top 0.3%) in the university entrance exam. (2020)