

SHAYAN PARDIS

Computer Science Undergraduate Student at MIT

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Cambridge, Boston

shayan-pardis

Shayan-P

EDUCATION

Bachelor of Computer Science and Engineering

MIT (transfer)

Sep 2022 – May 2025 (expected) Cambridge, Massachusetts

- GPA: 5.0/5.0

Sharif University of Technology

Oct 2020 – June 2022 Tehran, Iran

- GPA: 19.47/20

OTHER EXPERIENCES

Humanoid Robot: Software Development

MIT

Feb 2023 – now Cambridge, Massachusetts

- Research Project with Biomimetic Robotics Lab at MIT to improve software performance of humanoid robots (written in c++). The main goal of the project is to enable humanoid robots to achieve human-level physical intelligence to navigate various terrains.

Data Science Internship

Carriot

July 2021 – Sep 2021 Tehran, Iran

- Designed and developed a statistical model to parse addresses and find the corresponding locations with OSM (geocoding problem). used Hidden Markov Model to do POS tagging on addresses and tuned the Elastic Search engine to store and retrieve the OSM data.

Algorithm Course Tutor and Problem Setter

Iranian National Olympiad in Informatics Summer Camp

July 2021 – Aug 2021 Tehran, Iran

- Taught advanced algorithms including Max-Flow, 2SAT, Meet-in-the-Middle in INOI Summer Camp 2021. Selected to design 3 out of 9 questions of the final exams of INOI-2021.

Web developer

Abarkelas

Oct 2020 – June 2021 Tehran, Iran

- Developed both backend and frontend using Django and NuxtJs. Set up Prometheus and Grafana for monitoring. Turned the website to PWA (Progressive Web Application).

Website for QML seminar

Feb 2022

- Developed a website for a seminar in Quantum Machine Learning using React, Docker, Nginx. Used Material-UI for design.

ACHIEVEMENTS



ICPC 2021 World Finalist

Won 1st spot as a team in regional ACM-ICPC competition and was selected to participate in the world finals.



Gold Medal. IOI 2020

Ranked 10th in 32th International Olympiad in Informatics, Singapore



Gold Medal. INOI 2019

Ranked 1st in Iran National Olympiad in Informatics.

RELATED COURSES

MIT

- Analysis and Design of Algorithms
- Introduction to Inference
- Interactive Music Systems

Sharif University

- Advanced Programming
- Artificial Intelligence
- Linear Algebra
- Web Programming
- Engineering Probability and Statistics
- Data Structure and Algorithms

Other

- Convolutional Neural Networks for Visual Recognition (Stanford CS231n, Online)
- Deep Neural Networks with PyTorch (Coursera)

SKILLS

Algorithm Problem Solving C++
Python Java Bash Go NodeJs
React Django Docker

PROJECTS



Interactive Music System Project

- Developed (as a team) a sandbox game inspired by the physics of light that allows players to generate creative music.



Sharif AI Challenge

- Developed (as a team) an AI agent for a distributed game that ranked 4th in the competition. Used Huffman-code for cost efficient communication and A* algorithm for shortest path detection over a not-fully-explored map.