

# Mohammadreza Mofayezi

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## Education

- 2019-now **Bachelor of Science in Computer Engineering**, *Sharif University of Technology*, Tehran, Iran.
- 2013-2019 **Mathematics**, *Shahid Sadoughi High School (National Organization for Development of Exceptional Talents)*, Yazd, Iran.

## Experience

### Research

- Winter **Research Intern**, *VITA: Visual Intelligence for Transportation*.  
2021-now EPFL (École polytechnique fédérale de Lausanne)

### Educational

- Spring 2022 **Teaching Assistant**, *Artificial Intelligence*, Dept. of Computer Engineering, Sharif University of Technology.  
Tehran, Iran
- Fall 2021 **Teaching Assistant**, *Probability and Statistics, Data Structures and Algorithms, Fundamentals of Programming (C, C++)*, Dept. of Computer Engineering, Sharif University of Technology.  
Tehran, Iran
- Fall 2020 **Teaching Assistant**, *Fundamentals of Programming (C, C++)*, Dept. of Computer Engineering, Sharif University of Technology.  
Tehran, Iran

### Self Study

**Convolutional Neural Networks for Visual Recognition**, *A deep dive into the details of deep learning architectures*, [CS231n](#).

**Fundamentals of Reinforcement Learning**, *Studying Reinforcement Learning, Harnessing the full potential of artificial intelligence requires adaptive learning systems*. [Coursera certification](#).

**TensorFlow**, *Studying TensorFlow tools in deep learning, Working with basic image and text classification by training a neural network model*. .

**Cinematics in Unity**, *Studying Cine-Machine and Film Making in Unity*, [Soldier, A Short Film Made With Unity](#)..

### Vocational

- 2020-now **AR Developer at MadLlama**, Working on Mobile Augmented Reality Games With ARCore, ARKit and Unity.

Dept. of Computer Engineering – Sharif University of Technology

📞 +989137088691 • ✉ [mofayezi.m@gmail.com](mailto:mofayezi.m@gmail.com) • 🌐 [ckoorosh](#)  
[in](#) [marmofayezi](#) • [marmofayezi](#)

## Technical

2020 **Gamein 2020, Technical Developer.**

Game development with Unity3D and C#

## Top Projects

**Social Network**, A simple and fast method of representing social network graphs in Python. It implements a fast cache reply system using the heapq library. [GitHub Link](#).

**CFKala**, A Comprehensive App For Managing an Online Shop Developed With Java. [GitHub Link](#).

**Cyko Messenger**, A Fast Console Chat Application Developed With C. [GitHub Link](#).

**CKJson**, A Library For Json in C. [GitHub Link](#).

## Interests

**Computer Vision**

**Neural Networks**

**Augmented Reality**

## Honors and Awards

2019 **Winner**, 2nd on Spaghetti Code Contest.

2019 **Top 20 student in University Entrance Exam**, 1st rank among more than 50000 students. 15th among 250000 students..

## Languages

Persian Native

English Professional working proficiency

German Elementary proficiency

## Computer Skills

**General Programming Skills**, Python, C/C++, C#, Java, R.

**Machine Learning Tools**, PyTorch, TensorFlow, NumPy, Pandas, Matplotlib.

**Game Engine**, Unity for Game and Cinematic.

**Data management & Databases**, PostgreSQL, MySQL, MongoDB, Redis.

**CAD Tools & HDLs**, Verilog, Quartus, ModelSim.

**Graphical Design Tools**, CorelDraw, Adobe Photoshop, Adobe Illustrator.

**Frameworks & Programming Knowledge**, Spring Framework, Rest API, WebSocket.

**Miscellaneous**, Git (Version Control), LaTeX.

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in marmofayezi • 🐦 marmofayezi