Mohammadreza Mofayezi

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Education __

Sharif University of Technology

Tehran, Iran

Bachelor of Science in Computer Engineering

Sep. 2019 - Current

- GPA: 18.20/20.0
- Selected Courses: Artificial Intelligence, Machine Learning, Bioinformatics, Linear Algebra, Probability and Statistics, Design of Algorithms

Shahid Sadoughi High School

Yazd, Iran

Affiliated with National Organization for Development of Exceptional Talents

Sep. 2013 - Apr. 2019

• Diploma in Mathematics and Physics

Publications

Saeed Saadatnejad, Ali Rasekh, Mohammadreza Mofayezi, Yasamin Medghalchi, Sara Rajabzadeh, Taylor Mordan, and Alexandre Alahi. A generic diffusion-based approach for 3d human pose prediction in the wild. In NeurIPS 2022 Workshop on Score-Based Methods, 2022

Research & Work Experiences _____

VITA: Visual Intelligence for Transportation

EPFL

Undergraduate Research Assistant Under the Supervision of Prof. Alahi

Oct. 2021 - Jul. 2022

- · Formulated the task of human motion synthesis with a diffusion process that starts from a Gaussian noise and generates a human pose.
- Proposed a novel deep generative diffusion model for human motion reconstruction and prediction from incomplete and noisy data that outperforms SOTA models.
- The work resulted in a paper submitted to ICRA, accepted at NeurIPS 2022 Workshop on Score-Based Methods and published on arxiv.

MadLlama Tehran, Iran

Augmented Reality Developer

Oct. 2020 - Jan. 2022

- Worked on Mobile AR Games with ARCore, ARKit and Unity.
- Published 2 Games to App Store.

Teaching Experiences _____

 Artificial Intelligence, Instructor: Prof. Rohban Designed and graded assignments. Spring 2022, Fall 2022

Probability and Statistics, Instructor: Prof. Sharifi-Zarchi
 Designed and graded assignments, quiz and created educational materials.

Fall 2021

• **Data Structures and Algorithms**, Instructor: Prof. Safarnejad Designed and graded assignments.

Fall 2021

• Fundamentals of Programming (C, C++), Instructor: Prof. Fazli

Fall 2020, Fall 2021

Designed and graded assignments. Created reading materials.

Interests _

Machine Learning

Computer Vision

Natural Language Processing

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Other Experiences _____

CS231n: Convolutional Neural Networks for Visual Recognition

Audited the course from Stanford University

Online

Fundamentals of Reinforcement Learning

Audited the course from the University of Alberta (Coursera certification)

Summer 2021

Online

Fall 2021

Gamein 2020 Contest

Tehran, Iran

As a member of the Technical Staff, developed a large-scale multiplayer game with Unity3D and C#

Summer 2020 - Fall 2020

Top Projects _____

WeTube Tehran, Iran

Computer Networks Course, Prof. Jafari

Spring 2022

• Developed an online streaming app with Django framework. GitHub Link

Social Network Tehran, Iran

Data Structures and Algorithms Course, Prof. Safarnejad

Spring 2021

• Designed a simple and fast method of representing social network graphs in Python.

• Implemented a fast cache reply system using the heapq library. Github Link

CFKala Tehran, Iran

Advanced Programming Course, Prof. Mostafazadeh

Spring 2020

• Developed a comprehensive app for managing an online shop with Java and Spring Boot. GitHub Link

Cyko Messenger Tehran, Iran

Fundamentals of Programming Course, Prof. Fakouri

Fall 2019

• Developed a fast console chat application with C. GitHub Link

Honors and Awards _____

2019 **Winner**, 2nd Team in Spaghetti Code Contest

2019 **Award**, Scholarship Award of National Elites Foundation

2019 **Top 20**, University Entrance Exam; 1st rank among more than 50k students, 15th among 250k students

Skills_____

Programming Python, C#, C/C++, Java, R, SQL.

Machine Learning Tools PyTorch, Tensorflow, NumPy, Pandas, Scikit-learn, Matplotlib.

Game Engine Unity for Game and Cinematic.

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

Graphical Design Tools CorelDraw, Adobe Photoshop, Adobe Illustrator.

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

Miscellaneous Linux, 上TFX, Microsoft Office, Git.

Languages _____

EnglishProfessional proficiencyPersianNative proficiencyGermanElementary proficiency

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