

AMIR-HOSSEIN SHAHIDZADEH

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EDUCATION

Sharif University Of Technology, Tehran, Iran
BSc. of Computer Engineering
Department of Computer Engineering

2016 - Present
GPA: *overall: 3.74/4, major: 3.83/4*

Shahed Ansar High school, Ahwaz, Iran
Diploma in Mathematics and Physics Discipline.

2013 - 2016
GPA: *18.75/20 (top 5 of school)*

RESEARCH INTERESTS

- Computer Vision
- Image Representation
- Self-Driving Car & UAVs
- Robotics
- Point Cloud Processing
- Medical Image Analysis

ONGOING PROJECT

Quadpet
at Sharif University - Data Science & Machine Learning Lab (DML website)

April 2019 - Present

Under supervision of Dr. MH. Rohban & Prof. Hamid R. Rabiee

The project working with the robots aims at object avoidance with monocular images in python using deep reinforcement learning and computer vision techniques like depth images and other feature extractors. we are trying to use transfer learning methods like domain adaptation for training policies in a dense simulation world and testing it in the real world. It is going to be submitted on 2020 ECCV.

TECHNICAL SKILL

Programming	Python, C/C++/C#, Java, MATLAB, Verilog, PHP, HTML, CSS Javascript, SQL, elasticsearch.
Python Libraries	Tensorflow, PyTorch, Keras, Pandas, Numpy, OpenCV, Matplotlib .
C++ Libraries	OpenCV/CL, Pylon, ImageMagick, Turbo-jpeg, Boost, Thrift
Linux	Bash Programming, Makefile.
DBMS	MySQL, PostgreSQL.
Software & Tools	Sphinx(Gazebo), ROS, PyCharm, PhpStrom, IntelliJ, TeXstudio, Visual Studio, ModelSim, Quartus, Wireshark.

WORK EXPERIENCE

Mobayyen
at Green Silver Leaves

May 2019 - Present

We are pushing the limits of AI by inventing a scanner for detecting cancer cells from pathological images with deep-learning-based pattern recognition methods in C++.
(Company Website)

RELEVANT COURSES

Coursera

- Applied Machine Learning in Python (University of Michigan)
- Fundamentals of Digital Image and Video Processing (Northwestern University)
- Introduction to Data Science in python (University of Michigan)

Sharif University of Technology

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|--|-----------------|
| – Machine Learning (Dr. Kaveh Kadhoda) | Grade: 4/4 |
| – Artificial Intelligence (Dr. MH.Rohban) | Grade: 4/4 |
| – Linear Algebra (Dr. N. Bagherpour) | Grade: 4/4 |
| – Probability and Statistics (Dr. H. Peyvandi) | Grade: 4/4 |
| – Multimedia Systems (Dr. M. Amiri) | <i>on going</i> |
| – Nueral Modeling (Dr. B. Vosoughi Vahdat) | <i>on going</i> |

Audited Graduate Courses

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|---|-----------------------------|
| – Deep Learning (Prof. M. Soleymani) | <i>Computer Eng. Dep.</i> |
| – Image Processing (Prof. SH. Kasaei) | <i>Computer Eng. Dep.</i> |
| – Convex Optimization (Dr. M. Tefagh) | <i>Mathematics Dep.</i> |
| – Neural Networks (Prof. S. Bagheri Shouraki) | <i>Electrical Eng. Dep.</i> |
| – Graph Models (Dr. A. Amini) | <i>Electrical Eng. Dep.</i> |

HOBBY PROJECTS

• Image Processing

- Medical Image Stitching
- Face Recognition using CNN
- Simple object Detection with Cifar 100

• Artificial Intelligence

- Predicting car prices using Logistic Regression and Gradient Descent.
- Task Scheduling using Genetic algo.
- Bayes Net. Infrence
- Markov Net.
- Sudoko solver using knowledge base algorithms.
- RushHour game solver using A* algo.

• Computer Networks

- Peer to Peer network using RIP algo.

• Data Structure

- Time and space efficient Dictionary using Ternary trees

• Advanced programming

- Tower Defence which was graphical game using multi-threading & OOP & javaFx

TEACHING

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|---|---|
| - Teacher Assistant of Linear Algebra | <i>Sharif University of Technology</i>
<i>prof. Motahari</i> |
| - Teacher Assistant of Computer Networks | <i>Sharif University of Technology</i>
<i>prof. M. Jafari Siavoshani</i> |
| - Teacher Assistant of Signals & Systems | <i>Sharif University of Technology</i>
<i>prof. Hemmatyar</i> |
| - Teacher Assistant of Digital System Design | <i>Sharif University of Technology</i>
<i>prof. Alireza Ejlali</i> |
| - Teacher Assistant of System Design & Analysis | <i>Sharif University of Technology</i>
<i>prof. M. TaromiRad</i> |
| - Teacher Assistant of Data Transmission | <i>Sharif University of Technology</i>
<i>prof. Hemmatyar</i> |

LANGUAGE

English (conversant), Persian (Native)

HOBBIES

Mountaineering (Mount Damavand 5610m), Tennis