


MOHAMMAD ALI ZARRIN ZADEH

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LinkedIn 

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EDUCATION

Sadjad University Of Technology

2017 - 2021

B.S. in Computer Engineering

GPA: 3.72/4.0 (18.01/20.0)

◦ *Thesis:*

- . Game Controller based on Gesture with SVM
- . Grade: 19.75/20.0
- . Supervisor: Dr. Behzad Bakhtiari

National Organization for Development of Exceptional Talents (NODET)


2012-2016

Diploma of Mathematics and Physics

RESEARCH INTERESTS

- Machine Learning applications
- Image processing and Computer Vision
- Natural Language Processing
- Software Engineering
- IoT and Embedded Systems

WORK EXPERIENCE

Signal Processing Lab At SUT 

Mashhad, Iran

ML based Application Developer

March 2021-Current

- . Real-Time Object detection
- . Traffic Analyzer
- . Implement and optimize Inference Pipeline
- . Develop application for Nvidia Jetson Platform
- . Time series

WeBlast Ltd 

Mashhad, Iran

Back-End Developer

April 2018-March 2021

- . Develop a wide variety of applications back-end with Django (python)
- . Leading Back-End team
- . Online store's custom solutions
- . Payment flows
- . Kids education

PROJECTS AND RELATED COURSES

Vision based Traffic Analyzer For Mashhad Transport and Traffic Organization

Full implementation of a real-time and always-on system for vehicle detection and traffic Analyzing with edge technologies under supervision of **Dr.Behzad Bakhtiari**. Project developed using YOLOV4 Deep network for inference, Tensorrt, Gstreamer, Deepstream, Opencv and MQTT on nvidia Jetson platform.

Game Controller based on Gesture with SVM [↗](#)

Developing low cost game controller based on Gesture/Motion using MPU6050(gyro) and ESP8266 wifi module. gestures are trained and modeled by SVM. And developing a demo game with Unity.

Open Source CPython packages for PyPI

Object Tracker using SORT algorithm [↗](#) .

Package for mathematical line operations [↗](#) .

Implementation of an AI challenge(Competition) server [↗](#)

Implemented with Python and tkinter. Server simulates and displays a board game(Quoridor) playing by AI clients.

Implementation of a Kids Education Application (QWERTYGO [↗](#))

Designing and developing back-end side with Django.

Persian Word Recognition [↗](#)

Training a model with HMM for Recognition of some Persian words.

Simple Script Interpreter [↗](#)

A simple interpreter written in C++ with OOP;

Developing Online Stores Back-End with Django RestFramework

Most of them were start-up ideas and maybe they are down now.

Related Courses:

- . Multimedia Systems(Image Processing And NLP): 20/20
- . Algorithms Designing: 20/20
- . Operating Systems: 19.25/20
- . Microprocessor and Assembly: 19/20
- . Data Mining: 18.5/20
- . Language and Automata Theory: 20/20
- . Fundamentals of AI: 19/20
- . Fundamentals of Information Security: 18.5/20

SKILLS

Programming skills:

C/C++, Python. Matlab. *Basic*: JavaScript, C-Sharp, HTML, CSS

Tools/Frameworks:

Django, CPython, Arduino, Pandas, Docker, Keil, Darknet, Deepstream, Gstreamer, Opencv, Nvidia Jetson, Linux, NodeJS, Cmake, PostgreSQL, Numpy.

Other skills: Problem Solving, Algorithmic Thinking, Team Work

HONORS

- **Top student of graduating class**
 - . *Ranked within the top 5% among the graduating class*
 - . Top student of 2017 graduation class of B.Sc program in Sadjad University Of Technology
- **Member of ACM team of Sadjad University Of Technology**
 - . *Twenty-fourth place in the 2020 ICPC Asia Tehran Regional Contest*
- **University Selected student for National Olympiad**
 - . *Qualified for final contest*

LANGUAGES

English: Professional Working Proficiency

. *IELTS Academic: Overall 7*

Persian: Native

TEACHING ASSISTANT

Internet of Things

- *Dr.Bakhtiari* ✉

Sadjad University Of Technology
Spring 2021

Linear Algebra

- *Dr.Aminian* ✉

Sadjad University Of Technology
Fall 2020

Algorithm Designing

- *Dr.Salkhordeh* ✉

Sadjad University Of Technology
Fall 2019

Data Structures

- *Dr.Bakhtiari* ✉(twice)

Sadjad University Of Technology
Fall 2019, Spring 2020

Advanced Programming

- *Dr. Yazdanjoo* ✉ - *Engr. Yazdanian* ✉

Sadjad University Of Technology
Fall 2018, Fall 2020

Fundamentals of Programming

- *Engr. Yazdanian* ✉ - *Dr.Shamsaee* ✉ - *Dr.Rajaei* ✉

Sadjad University Of Technology
Summer 2018, Fall 2018

ONLINE COURSES

Machine Learning ☞

Andrew Ng, Stanford online by Coursera

Machine Learning Course tutorial by Stanford online in Coursera.com.

Neural Networks and Deep Learning ☞

Andrew Ng, Deeplearning.ai by Coursera

Through five interconnected courses, learners develop a profound knowledge of the hottest AI algorithms, mastering deep learning from its foundations (neural networks) to its industry applications (Computer Vision, Natural Language Processing, Speech Recognition, etc.)

- References, Further Information and Proofs are available upon request