


MOHAMMAD ALI ZARRIN ZADEH

+98 9152222736 

ali.zarrinzadeh@gmail.com 

LinkedIn 

GitHub 

WORK EXPERIENCE

WeBlast Ltd

Back-End Developer

Frankfurt, Germany (Remote)

April 2018 - Present

- . Development and maintenance of back-end applications using Django (Python).
- . Leadership of the Back-End team.
- . Custom solution design for online stores.
- . Management and enhancement of payment flows.
- . Application development for kids' education.

Signal Processing Lab At SUT

Machine Learning Software Engineer

Mashhad, Iran

March 2021 - Present

- . Real-time object detection application development.
- . Traffic analyzer tool creation.
- . Inference pipeline implementation and optimization.
- . Application development for the Nvidia Jetson Platform.
- . Back-End Development

EDUCATION

Sadjad University Of Technology

B.S. in Computer Engineering

2017 - 2021

GPA: 3.72/4.0 (18.01/20.0)

. *Thesis:*

- . Game Controller based on Gesture with SVM

National Organization for Development of Exceptional Talents (NODET)

Diploma of Mathematics and Physics

2012-2016

SKILLS

Programming Languages:

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

Tools/Frameworks:

Django, CPython, Linux, Docker, CI/CD, Git, Arduino, Pandas, Docker, Darknet, Gstreamer, Opencv, Nvidia Jetson, NodeJS, Nest, Cmake, Numpy, Matsim.

Other skills: Problem Solving, Algorithmic Thinking, Team Work

LANGUAGES

English: Professional Working Proficiency

- *IELTS Academic: Overall 7*

Persian: Native

INTERESTS

- **Software Engineering**
- **Machine Learning And AI**
- **Natural Language Processing**
- **Image processing and Computer Vision**

HONORS

- **Top Student of the Graduating Class, Sadjad University of Technology**

. *Ranked within the top 5% of the graduating class.*

. Top student of the 2017 B.Sc. program.

- **Member of the ACM Team, Sadjad University of Technology**

. *Achieved twenty-fourth place in the 2020 ICPC Asia Tehran Regional Contest.*

- **University-Selected Student for National Olympiad**

. *Qualified for final contest*

ACADEMIC PROJECTS

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

Persian Word Recognition [↗](#)

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

Simple Script Interpreter [↗](#)

A simple interpreter written in C++ using OOP;

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