

Alireza TORABIAN

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RESEARCH INTERESTS

- Natural Language Processing
- Machine Learning
- Data Mining
- Artificial Intelligence

EDUCATION

2015 - now	Bachelor of COMPUTER Engineering, Amirkabir University of Technology (Tehran Polytechnic) <i>Ranked 100 in the world by subject of Engineering</i> GPA: 3.9/4 (18.16/20) for 116 units until now
2011 - 2015	Diploma in PHYSICS AND MATHEMATICS DISCIPLINE, Allame Helli High School , Tehran <i>Ranked 1 in Iran</i> GPA: 19.39/20

RESEARCH AND WORK EXPERIENCES

Jul 2018 - Dec 2018	Research and Development Intern in Developing Persian Question Answering System at Diallog Diallog Company Page
Apr 2017 - Sep 2017 Oct 2016 - Feb 2017	Member of S.O.S. vr Team, Research Assistant at Cognitive Robotics Laboratory Amirkabir University of Technology, Tehran, Iran Supervisor: Dr. Saeed Shiry Ghidary CR Laboratory Page
Sep 2016 - Jun 2017	Founder and Member of Dropout (F.K.A. Lost Soul), Android Game Developer Team Dropout CafeBazaar Page

PUBLICATIONS AND TECHNICAL REPORTS

- M. Ahmadi, Mh. GohariNejad, **Ar. Torabian**. SOSrs Rescue Simulation Virtual Robot Team Description Paper 2018. International RoboCup Competition, Rescue Simulation Virtual Robot League, **Montreal, Canada Jun 2018**
[| Download PDF](#)
- **Ar. Torabian**, A. Gholami, A. Beheshti, N. Karaminejad, A. Rashidbeigi, A. Dizani. **A Deep Analysis of Ethical Dilemmas in Computer Engineering**, Faculty of Computer Engineering, Amirkabir University of Technology, Tehran, Iran, Engineering Ethics Final Project Report **Dec 2017**
[| Download PDF](#)
- **Ar. Torabian**, Mh. GohariNejad, M. Ahmadi, S. Azami, S. Shiry. SOSvr Rescue Simulation Virtual Robot Team Description Paper 2017. International RoboCup **IranOpen** Competition, Rescue Simulation Virtual Robot League, Tehran, Iran **Mar 2017**

PRESENTATIONS

- Question Answering System

Dec 2018

What are the QA systems and why we need them and how to implement them?

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TEACHING ASSISTANTSHIPS

Artificial Intelligence: [Dr. Nickabadi](#)

Sep 2018 – Jan 2019

Data Structure and Algorithms: [Dr. Bagheri](#)

Sep 2018 – Jan 2019

Principles of Computer and Programming: [Dr. Shiry Ghidary](#)

Sep 2018 – Jan 2019

Artificial Intelligence: [Dr. Nickabadi](#)

Feb 2018 – Jun 2018

Data Structure: [Prof. Dehghan Takht Fooladi](#)

Sep 2017 – Jan 2018

HONORS AND AWARDS

- **Second Place** in the Rescue Simulation Virtual Robot League alongside SOSvr Team at **Robocup Nagoya, Japan, 2017**
- Ranked **2nd** among all Software Engineering Students, Class of 2015, Amirkabir University of Technology, Tehran, Iran, **2016**
- Ranked **524th** among **180,000** Participants in the Nationwide Iranian University Entrance Exam in Math and Physics, **2015**
- **Qualified** for the Second Round of the **Iranian Mathematical Olympiad**, Iran, **2013**
- **Accepted** in **NODET High School** Entrance Exam, National Organization for Development of Exceptional Talents, **Allame Helli**, Tehran, Iran **2011**

COMPUTER SKILLS

Languages:	C++, Java, Python, Go , VHDL, Verilog, AVR Assembly
Frameworks and Tools:	Tensorflow, Numpy, Gensim , Scikit, Pandas, Lucene, NLTK
Databases:	MySQL , SPARQL
Web Programming:	HTML, CSS, JavaScript , jQuery, PHP
Application Development:	Android, ReactNative
Operating Systems:	Linux(Ubuntu), Mac OS, Windows

NOTABLE PROJECTS

- [Data Mining Homeworks](#), Homeworks of data mining course, 2019
- [RNN Language Model](#), Word sequence prediction using RNN, 2018
- [QA Clustering](#), Clustering the answers by some methods, 2018
- [NUMEX Interpreter](#), An interpreter using functional language named Racket, 2018
- [C to SAYEH Compiler](#), A compiler for [SAYEH](#) processor, 2017
- [Classical Search](#) and [Local Search](#) algorithms, AI Course Project, 2017
- [Search Engine](#), Data Structure Course Project by Java, implementation of BST, AVL (Balanced BST), TST, Balanced TST, Trie and HashMap using chaining approach based on LinkedList, 2016
- [Exile](#) Game developed by Lost Soul android game developer team, 2016
- [Pacman](#) Game, Advanced Programming Course Project by Java, 2016

LANGUAGES

PERSIAN: Native

ENGLISH: Fair

REFERENCES

[Ahmad Nickabadi](#), Assistant Professor

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[Saeed Shiry Ghidary](#), Assistant Professor

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[Saeedeh Momtazi](#), Assistant Professor

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