

Mahtab Farrokh

UNDERGRADUATE SOFTWARE ENGINEERING

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Education

Amirkabir University of Technology (Tehran Polytechnic)

Tehran, Iran

B.S. IN COMPUTER SOFTWARE ENGINEERING

2015 - PRESENT

GPA: 3.64/4 (18.19/20) for 137 units until now

Farzanegan 1 High School

Tehran, Iran

DIPLOMA IN PHYSICS AND MATHEMATICS DISCIPLINE

2011 - 2015

GPA: 3.87/4 (19.36/20)

Skills

Programming	Python3, C/C++, Go, Node.JS, LaTeX, JAVA, Matlab, AVR Assembly, VHDL, Verilog
Web	React, HTML5, CSS, JavaScript, Express with Node.JS, Django with Python
Databases	MySQL, MongoDB
Frameworks and Tools	Keras, Tensorflow, Numpy, Scikit, Pandas, Qt
Operating Systems	Ubuntu, Windows

Work Experiences

Tebinja

Tehran, Iran

ARTIFICIAL INTELLIGENCE DEVELOPER

Oct. 2016 - PRESENT

- We have implemented a symptom checker system which is web-based. For this system, we merged results of 4 algorithms: bayesian, decision tree, DQN(Deep Q-network), feedforward neural network. Furthermore, we are working to implement a price recommender for airline tickets.

Research Experiences

Amirkabir University of Technology

Tehran, Iran

B.Sc. PROJECT

Jan. 2019 - PRESENT

- I work on a multi-label classification algorithm using link prediction for Improving symptom checker system under the supervision of Prof. Amir Haeri.

RESEARCH AND DEVELOP I1820

Oct. 2017 - Jan. 2018

- Implementing a middleware platform for IoT based on agent approach under the supervision of Prof.Bakhshi, AoLab

Teaching Experiences

Amirkabir University of Technology

Tehran, Iran

TEACHING ASSISTANT

2016 - PRESENT

- Signals & Systems, Under Supervision of Prof.Rasti
- Artificial Intelligence & Expert Systems, Under Supervision of Prof.Nikabadi
- Engineering Statistics, Under Supervision of Prof.AmirHaeri
- Data Structure & Algorithms, Under Supervision of Prof.Dehghan
- Introduction to Programming, Under Supervision of Prof.Bakhshi

Amirkabir University of Technology

Tehran, Iran

TEACHER

2017 - 2018

- Introduction to Python3 programming

Interests

Machine Learning, Deep Learning, Big Data, Computer vision, CNN, AI Applications in Medical science

Online Courses

Neural Networks and Deep Learning

BY DEEPLARNING.AI

Grade Achieved: 100.0%

Certificate

Aug. 2018

Improving Deep Neural Networks: Hyperparameter tuning, Regularization and Optimization

BY DEEPLARNING.AI

Grade Achieved: 97.6%

Certificate

Sep. 2018

Structuring Machine Learning Projects

BY DEEPLARNING.AI

Grade Achieved: 95.8%

Certificate

Sep. 2019

Convolutional Neural Networks

BY DEEPLARNING.AI

Grade Achieved: 98.9%

Certificate

Sep. 2019

Machine Learning

BY STANFORD UNIVERSITY

Grade Achieved: 96.1%

Feb. 2018

Honors & Awards

- 2019 **Qualified to Direct Admission to graduate school (M.Sc.)**, Computer Engineering Department, AUT
- 2013 **Semi-finalist**, National Mathematics Olympiad
- 2015 **Ranked top 0.4%**, among more than 180,000 students participated in the nationwide entrance examination of undergraduate studies in Iranian universities
- 2007-2014 **Member of National Organization for Development of Exceptional Talents**, Nodet
- 2011 **Accepted for 2nd level Kharazmi awards assessments**, Built a recyclable hovercraft

Notable Projects

- 2019 **Message Broker**, Implemented For Distributed Systems course project by Go *Project*
- 2019 **Food Ordering website**, Implemented For Web Programming course project by React and Node.js and mongoose *Project*
- 2018 **NUMEX Interpreter**, An interpreter using functional language named Racket for Programming Languages course project *Project*
- 2018 **Time Series Prediction**, Using srma model *Project*
- 2017 **C to SAYEH Compiler**, A compiler for SAYEH processor *Project*
- 2017 **Classical Search and Local Search algorithms**, AI Course Project by Python, implementation of BFS, DFS(unlimited, limited, iterative), A*, bidirectional, genetic, hill climbing, simulated annealing *Project*
- 2016 **Search Engine**, Data Structure Course Project by Python, implementation of BST, AVL (Balanced BST), TST, Balanced TST, Trie and HashMap using chaining approach based on LinkedList *Project*

Extracurricular Activity

SSC

MEMBER

- Elected as a member of Students Scientific Chapter(SSC), CEIT Department, Amirkabir University of Technology

Tehran, Iran

2017 - 2018

Linux Festival

MEMBER OF EXECUTION COMMITTEE

- 9th and 8th National AUT Linux Festival

Tehran, Iran

Spring 2017 and 2016

ACM ICPC

MEMBER OF EXECUTION COMMITTEE

- 18nd, 17nd, and 16nd International AUT ACM ICPC

Tehran, Iran

Fall 2018 and 2017 and 2016

DMC

MEMBER OF EXECUTION COMMITTEE

- 1st Data Mining Cup

Tehran, Iran

Fall 2017

References

Professor Maryam Amirhaeri ,	Assistant professor	Email: haeri@aut.ac.ir
Professor Bahador Bakhshi,	Assistant professor	Email: bbakhshi@aut.ac.ir
Professor Ahmad Nikabadi,	Assistant professor	Email: nickabadi@aut.ac.ir