Kasra Darvish

Maryland, USA

Education

Ph.D., Computer Science

University of Maryland, Baltimore County

2018-Present

• GPA: 3.85/4.0

• Advisor: Professor Cynthia Matuszek

B.Sc., Computer Science
Shahid Beheshti University

Tehran, Iran
2013-2018

• GPA: 3.78/4.0

• Last 2 years GPA: 3.92/4.0

Technical Skills

• Programming and Tools:

o Python, Java, C++, C

PyTorch, OpenCV

o LATEX, Ibe

MATLAB, Prolog

o HTML, CSS, JavaScript

OVim, Emacs, Docker

• Operating Systems: Mac OS X, GNU/Linux

Honors and Awards

• Morgan Stanley scholarship recipient for doing research focused on Data Science University of Maryland, Baltimore County	Maryland, USA 2018-2019
• Ranked as top 1% among computer science students Shahid Beheshti University	Tehran, Iran 2018
• Selected as one of the top 5 students Nationwide Computer Science Olympiad	Iran 2017
• Exempted from M.Sc. university entrance exam as an exceptional-talent student	Iran 2017
• Ranked as top 1% among more than 250,000 students National Universities Entrance Exam	Iran 2013

Notable Projects

- A Convolutional Neural Network (CNN) for gender and race detection based on face images in Python
- Pedestrian Detection using Support Vector Machine and Histogram of Oriented Gradients in MATLAB
- An adversarial **2D game** in **C++** with **minimax** algorithm for the agent
- The Chromatic Art Gallery Problem for specific type of polygons
- Ball Mania, a 2D game developed in C++ using its graphic library

- **Genetic algorithm** to solve a modified version of the **maze problem** in which we have to put different shapes of pipes in each cell to convey the water from source to destination
- Prolog program to solve Einstein's riddle

Research Experience

• Research Assistant,	Robotics and Machine Learning	Prof. Cynthia Matuszek
University of Maryland.	Baltimore County	Feb. 2019 - Present

• Research Assistant, Deep Learning
Shahid Beheshti University

• Research Assistant - Computational Geometry Laboratory

Shahid Beheshti University

Prof. Farnaz Sheikhi
Feb. 2017 - May 2018

• Disease detection by processing iris image Shahid Beheshti Univeristy

• Principal Component Analysis (PCA) and Eigenface Shahid Beheshti University

Prof. Alireza Tavakoli
May 2017 - July 2017

Prof. Hadi Farahani

Nov. 2017 - May 2018

Prof. Alireza Tavakoli May 2017

Teaching Exprience

Teaching Assistant, Algorithms	Prof. Paul Burkhardt
University of Maryland, Baltimore County	Jan. 2019 - May 2019

• Teaching Assistant, Algorithms

University of Maryland, Baltimore County

Prof. Christopher Marron
Sept. 2018 - Dec. 2018

• Teaching Assistant, Computational Geometry
Shahid Beheshti University
Prof. Farnaz Sheikhi
Sept. 2017 - Jan. 2018

• Teaching Assistant, Compiler Theory
Shahid Beheshti University
Prof. Adel Hosseini
Sept. 2017 - Jan. 2018

• Teaching Assistant, Automata Theory
Shahid Beheshti University
Prof. Hadi Farahani
Feb. 2016 - July 2016

• Teacher, Mathematics

Mahde Danesh High School

Tehran, Iran
2013 - 2016

Memberships and Services

• IOI Office Member
The 29th International Olympiad in Informatics
Tehran, Iran
Aug. 2017

• Executive Director of "Pardazeh" Tehran, Iran
The Scientific Journal of Computer Science Association, SBU Sept. 2014 - Nov. 2015

Research Interests

- Artificial Intelligence, Robotics
 Computer Vision, NLP
 Algorithms, Computational Geometry
 Deep Learning, Machine Learning
- Languages
- Persian (Farsi): NativeEnglish: Fluent

 \circ **Spanish**: Beginner \circ **Arabic**: Intermediate

Other Skills

• Piano: Intermediate • Soccer: Professional player