Kasra Darvish

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Education

Ph.D., Computer Science　　　　　　　　　　　　　　　　　　　　　　**Maryland, USA**
University of Maryland, Baltimore County　　　　　　　　　　　　　　　　*2018-Present*
- GPA: 3.85/4.0
- Research: TBA

B.Sc., Computer Science　　　　　　　　　　　　　　　　　　　　　　　**Tehran, Iran**
Shahid Beheshti University　　　　　　　　　　　　　　　　　　　　　　*2013-2018*
- GPA: 3.78/4.0
- Last 2 years GPA: 3.92/4.0

Technical Skills

- **Programming**:
  - Python, Java, C++, C
  - PyTorch, TensorFlow, OpenCV (Computer Vision)
  - LaTeX
  - MATLAB, Prolog
  - HTML, CSS, JavaScript
  - Ipe (Computational Geometry)
- **Operating Systems**: Mac OS X, Linux, Windows

Honors and Awards

- **Morgan Stanley scholarship recipient for doing research focused on data science**　　**Maryland, USA**
University of Maryland, Baltimore County　　　　　　　　　　　　　　　　*2018-2019*

- **Ranked as top 1% among computer science students**　　　　　　　　　**Tehran, Iran**
Shahid Beheshti University　　　　　　　　　　　　　　　　　　　　　　*2018*

- **Selected as one of the top 5 students**　　　　　　　　　　　　　　　　**Iran**
Nationwide Computer Science Olympiad　　　　　　　　　　　　　　　　*2017*

- **Exempted from M.Sc. university entrance exam as an exceptional-talent student**　　**Iran**
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- **Ranked as top 1% among more than 250,000 students**　　　　　　　　　**Iran**
National Universities Entrance Exam　　　　　　　　　　　　　　　　　*2013*

Notable Projects

- ***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, Deep Learning**   **Prof. Hadi Farahani**
Shahid Beheshti University   *Nov. 2017 - May 2018*

- **Research Assistant - Computational Geometry Laboratory**   **Prof. Farnaz Sheikhi**
Shahid Beheshti University   *Feb. 2017 - May 2018*

- **Disease detection by processing iris image**   **Prof. Alireza Tavakoli**
Shahid Beheshti Univeristy   *May 2017 - July 2017*

- **Principal Component Analysis (PCA) and Eigenface**   **Prof. Alireza Tavakoli**
Shahid Beheshti University   *May 2017*

Teaching Exprience

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

- **Teaching Assistant, Algorithms**   **Prof. Christopher Marron**
University of Maryland, Baltimore County   *Sept. 2018 - Dec. 2018*

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

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

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

- **Teacher, Mathematics**   **Tehran, Iran**
Mahde Danesh High School   *2013 - 2016*

Memberships and Services

- **IOI Office Member**   **Tehran, Iran**
The 29th International Olympiad in Informatics   *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)**: Native
- **Spanish**: Beginner
- **English**: Fluent
- **Arabic**: Intermediate

Other Skills

- Piano: Intermediate
- Soccer: Professional player