





MARYAM HONARI

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EDUCATION

University of Victoria

Victoria, Canada

M.Sc. Computer Science — **Expected Graduation: April 2019**

Overall GPA: 4.22/4.33

Supervisor: Dr. Alona Fyshe, **Thesis:** Decoding Semantic Representations during Production of Minimal Adjective-Noun Phrases

Sep. 2016 - Apr. 2019

Shiraz University

Shiraz, Iran

B.Sc. Computer Engineering (Software Engineering)

Sep. 2012 - Jul. 2016

Achieved 4th rank among 70 CE students

Overall GPA: 18.06/20.0

EXPERIENCE

Data Scientist Intern | Black Duck Software, Vancouver, BC

Sep - Dec 2017

- Improved the accuracy of a legal agreement classifier by 10% and designed it to retrieve the risky information from documents.
- Integrated this module as a microservice in a larger software product

Machine Vision Research Intern | CIVIP, Shiraz, Iran

Jun. - Nov. 2015

Advised by Dr. Zohreh Azimifar

- Contributed to design and implementation of Vehicle Speed Estimation system; an automated system to predict speed and trajectory of vehicles in urban areas
- Tuned License Plate Recognition System (LRP) in the day and night conditions

Microcontroller programming Intern | Fars Mehvar Azema, Shiraz, Iran

Apr.- Jul 2016

- Programmed and tested the microcontroller of voltage/current relays to be used in power systems

PUBLICATIONS

Ensemble Methods for Native Language Identification [\[PDF\]](#)

BEA12 workshop, NLI Shared Task, Tied for 2nd place, proceeding of (EMNLP), 2017

Decoding semantic representations during production of adjective-noun phrases

Correlating the MEG recordings to the semantic representation of the words [In Preparation]

RELATED PROJECTS

Convolutional Neural Networks for Facial Expression Recognition

Spring 2017

- Developed an online application to predict emotions in real-time
 - Explored three neural network architectures and achieved accuracy of 68.2% on FER2013 dataset
- Tools:** Keras, Tensorflow, OpenCV, python

Oscars' Winners and Nominees prediction

Fall 2016

- Explored impact of social profile of a movie on nomination or winning of an academy award
 - Achieved 64% accuracy on nominees and 41% accuracy on winners of last 50 academy awards
- Tools:** python, scikit-learn, Pandas, numpy, matplotlib

Facial Recognition system | Undergrad project

Spring 2016

- Built an online application to dynamically recognize faces in videos

- Performance of Eigen faces, Fisher faces, LBPH and KNN were compared on variety of datasets

Tools: C++, OpenCV

Air hockey game on android

Fall 2015

- Developed Air hockey game in unity engine for android devices

Tools: Unity, C#, blender

Parallel Graph Algorithms on GPU

Fall 2015

Parallel programming - Dr. Khunjush

- Developed *BFS*, *Floyd-Warshall* and *graph colouring* algorithms on CUDA platform
- Improved performance of all algorithms, e.g. 90x speed up in Floyd-Warshall for a graph of 2k nodes

Tools: CUDA, C++

Library Management System

Fall 2014

- A website for managing a library implemented based on MVC architecture

Tools: Java, Hibernate ORM, JDBC Realm, HTML, CSS and JS

Antivirus for portable devices with C++

Spring 2013

- Aimed to detect viruses in any portable devices and unmount it right after connecting to the computer
- Done virus signatures matching with an efficient algorithm named “Aho-Corasick”

Tools: C++, Microsoft Windows libraries, HTML, CSS and JS

TEACHING ASSISTANT

Algorithms and Data Structures

University of Victoria

Design and Analysis of Algorithms

Shiraz University

Data Structures & Algorithms

Shiraz University

Digital Design

Shiraz University

TECHNICAL SKILLS

Programming Languages	• C/C++	• Java	• C#	• Python	• MATLAB
	• SQL	• PHP	• Javascript	• CSS	• HTML
platforms & Frameworks	• Keras	• Tensorflow	• OpenCV	• CUDA	
	• Docker	• JDBC Realm	• JavaFX	• Hibernate ORM	
	• Unity	• Tableau	• LaTeX	• Git	

HONORS AND AWARDS

Volunteer mentor at science venture	<i>Aug. 2017</i>
Department Fellowship and RA position from University of Victoria	<i>Sep. 2016</i>
Department Fellowship and RA position from position from University of Alberta	<i>Sep. 2016</i>
Ranked 4th among 70 students in the Computer Engineering at Shiraz University	<i>Jun. 2016</i>
Ranked 12th among 155 teams in AI Challenge <i>A multi-agent survival challenge held by Sharif University of Technology</i>	<i>Feb. 2015</i>
Honorable mention in ACM ICPC Asia Tehran Regional Contest	<i>Dec. 2013</i>
Semi-finalist in Iranian National Olympiads in Math and Informatics	<i>2010 & 2011</i>