MARYAM HONARI

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EDUCATION

University of Victoria   *Victoria, Canada*
M.Sc. Computer Science — **Expected Graduation**: **Jan. 2019**   Overall GPA: 4.22/4.33
Supervisor: Dr. Alona Fyshe, **Thesis**: Decoding Semantic Representations
during Production of Minimal Adjective-Noun Phrases   *Sep. 2016 - Present*

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

Black Duck Software, Vancouver, BC   Apr.- Jul 2016
Data Scientist Intern

– 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

Center of Intelligent Vision&Image Processing (CIVIP), Shiraz, Iran   Jun. - Nov. 2015
Machine Vision Intern, 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 day and night conditions

Fars Mehvar Azema (FMA), Shiraz, Iran   Apr.- Jul 2016
Microcontroller programming Intern

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

PUBLICATIONS

Decoding semantic representations during production of minimal adjective-noun phrases
Correlating the MEG recordings to the semantic representation of the words   *In Preparation*

Ensemble Methods for Native Language Identification   Sep. 2017
Proceeding in 12th Workshop on Innovative Use of NLP for Building Educational Applications (BEA12)

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

Parallel Graph Algorithms on GPU

Fall 2015

Parallel programming - Dr. Khunjush

– Developed BFS, Floyd-Warshall and graph coloring 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, 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 librariesHTML, 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 Unity • JDBC Realm • JavaFX • HIBERNATE Git • LATEX • Tableau • Docker
Operating Systems	Windows • Linux

HONORS AND AWARDS

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