MARYAM HONARI

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EDUCATION

University of Victoria — *Victoria, Canada*
M.Sc. Computer Science, **Supervisor**: Dr. Alona Fyshe — Overall GPA: 4.22/4.33
Research: Machine learning, Natural Language processing — *Sep. 2016 - Apr.2019*

Shiraz University — *Shiraz, Iran*
B.Sc. Computer Engineering (Software Engineering) — *Sep. 2012 - Jul. 2016*
Ranked 4th among 100 CE students — Overall GPA: 18.06/20.0

EXPERIENCE

Machine Learning Engineer | Unity Technologies, Vancouver, BC — Feb 2021 - Present

– Develop Machine learning tools to train agents in games, Maintain open-source ML-agents package

Machine Learning Engineer | Kabam Games, Vancouver, BC — May - Jan 2021

– Train reinforcement learning agents for play-testing and game balancing
– Design and development of game agnostic reinforcement learning platform

Data Scientist Intern | Synopsys 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

Computer Vision Researcher Intern | CIVIP, Shiraz, Iran — Jun. - Nov. 2015
Advised by Dr. Zohreh Azimifar

– Contributed to design and implementation of Vehicle Speed Estimation system;
– Tuned License Plate Recognition System (LRP) in the day and night conditions

PUBLICATIONS

Neural representation of words within phrases: Temporal evolution of color-adjectives and object-nouns during simple composition [PDF]
PLOS ONE Journal

Ensemble Methods for Native Language Identification [PDF]
EMNLP17 workshop on Building Educational Applications

Decoding semantic representations during production of minimal adjective-noun phrases
Master's Thesis (computer Science, University of Victoria) [PDF]

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++

Correlation Between Transportation Expansion and Socioeconomic Effects Winter 2017

– Developed a Tableau visualization to represent how transportation system expansion correlated the socio-economic indices like income and house affordability, in London, UK in recent years
Tools: Tableau, python, panadas

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	• Pytorch		• Tensorflow2	• OpenCV	• CUDA
	• Docker & Kubernetes		• AWS & GCP	• Flask	
	• Unity		• Tableau	• LaTeX	• Git

HONORS AND AWARDS

Placed 2nd at the Native Language Identification (NLI) Challenge at EMNLP Conference *Sep, 2017*
Volunteer mentor at Science Venture workshop Aug. 2017
Department **Fellowship** and **RA** position from **University of Victoria** *Sep. 2016*
Prospective department **Fellowship** and **RA** 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 the regional ACM-ICPC, Tehran, Iran *Dec. 2013*
Semi-finalist in **Iranian National Olympiads** in **Math** and **Informatics** *2010 & 2011*