Hooman Hashemi

CONTACT Information

UBC alumni email

hashemih@alumni.ubc.ca hhoomn390@gmail.com

Email address[preferred]

Current Address: 2672-4 Fairview crescent, UBC, Vancouver,

Canada [Postal Code: V6T 2B9]

Current phone number +17789872393

EDUCATION

University of British Columbia (UBC), Vancouver, Canada.

M.Sc., Computer Science,

Expected: July 2019

• GPA: 3.85/(4.33)

Courses Taken

 \cdot Machine Learning (CPSC 540), Graphical Models (CPSC 532R), Learning Theory (CPSC 531H), Multimodal learning (CPSC 532L), Fundamentals of Algorithm (CPSC 500) , AI II (CPSC 522) ,Parallel Programing (CPSC 521)

Sharif University of technology (SUT), Tehran, Iran.

B.Sc., Computer Engineering, Software field

Expected: June 2017

• GPA: **18.10/20**

Some Selected Courses

- \cdot Calculus 1 (17.9/20), Calculus 2 (19/20), Numerical Methods (19.6/20), Probability and Statistics (20/20)
- \cdot Design of Algorithms (20/20), Data structures (20/20), Theory of Languages and Automata (19/20), Theory of Computation (19.5/20), Database Design (20/20), Digital System Design (19.5/20), Artificial Intelligence (19.4/20), Signals and Systems (20/20), Introduction to 3D Computer Vision (18.7/20)

ATCCE High School, Tehran, Iran

Diploma in Mathematics and Physics Discipline

June 2013

Honors And Awards

Ranked 4th in West Asia Regional ACM-ICPC Contest , Tehran, Iran 2014
 Ranked 4th in West Asia Regional ACM-ICPC Contest , Tehran, Iran 2013
 Gold Medal (Ranked 1st) in 22nd National Computer Olympiad 2012

 Iranian National Olympiad in Informatics

 Silver Medal (Ranked 12th) in 21st National Computer Olympiad 2011

 Iranian National Olympiad in Informatics

RESEARCH EXPERIENCES • Research on Automata in UBC.

Summer 2018

- · Research on Chemical Reaction Networks, a variation of population protocols.
- \cdot Helped to Identify the class of functions defined by the CRNs which do not rely on the output.

University of British Columbia

• Research Assistant in IPL.

Fall and Spring 2017

- · B.Sc. Final thesis
- · Research on Semantic segmentation and support relationship inference for RGB-D

images

 \cdot Negligible Improvements, less than a real research, mostly learning. Sharif University of Technology

• Research Assistant in DREAMS lab.

Summer 2016

The Chinese University of Hong Kong

- \cdot Worked on approximation algorithms for energy systems (e.g., microgrids) under supervision of Dr.Minghua Chen
- · Research finished in documented but not published results (The result was in theory providing a 2-approx in polynomial time for the problem of dispatching energy in microgrids, improving the previous ≈ 180 -approx. Though the order of polynomial was high)
- · Summer Internship

• Research Assistant in Graph lab.

Fall 2015 — Spring 2016.

Sharif University of Technology

- · Worked on Hoffmann-Ostenhof's conjecture under supervision of Prof.S.Akabari.
- · Proved the conjecture for traceable cubic graphs.

PUBLICATIONS AND WORKING PAPERS

• Output-Oblivious Chemical Reaction Networks.

Summer 2018

- · Conference paper, presented at OPODIS 2018
- · A variation of population protocols (CS Theory, Algorithm and Automata)
- · I completed the last parts, my main contribution was in the proof of sufficiency.

• Hoffmann-Ostenhof's conjecture for traceable cubic graphs.

Fall 2015

- · A joint work with S.Akbari, F.Abdolhosseini. (Although we were first to put the results on arxiv(2016), someone else published the results first(2017))
- \cdot Main contributor to the paper (The problem was solved alone. The field demands alphabetical order)

Professional Experience

• Researcher and Developer in Torob company

Summer 2017

- · Working on product category suggestion for search queries
- · Accuracy was improved from less than 80 percent to near 90

• Researcher and Developer in SUT Big Data Work Group

Summer 2015

• Software Developer at Rahnama Co (Beep), Tehran, Iran,

Summer 2014

- · Mobile app and game developer using unity and native SDKs
- · Ended in developing Light up

TECHNICAL SKILLS

- ML and DNN tools and languages
 - · Worked with: PyTorch, Theano, Lasagna, Caffe, Keras.
- Programing Languages
 - · Expert: C++ and C, Java, Web languages
 - · Skilled: Python
 - · Familiar: Objective C
- Tools and Other Languages: Unity, OpenGL, GLSL, MATLAB
- Mobile Developing and Design
 - · Android
 - · Familiar: IOS

• Web: jQuery, Angular, Django, React etc.

Languages - Persian: Native

– English: Fluent

TOEFL® iBT: 99 (Reading: 26, Listening: 28, Speaking: 18, Writing: 27)(Exempt)
GRE®: (Verbal: -, Quantitative: 168, Writing: -) November 2016
GRE®: (Verbal: 148, Quantitative: 163, Writing: 3) October 2016

Refrences are provided via hyperlinks. More information is available upon request References