Hooman Hashemi

CONTACT
INFORMATION

UBC alumni email   hashemih@alumni.ubc.ca
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EDUCATION

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

M.Sc., Computer Science,   *Expected: July 2019*

- GPA: **3.85/(4.33)**

Courses Taken
· 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
· Calculus 1 (17.9/20), Calculus 2 (19/20), Numerical Methods (19.6/20), Probability
and Statistics (20/20)

· 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.
  · 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
· 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
  · 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 $\approx$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.

- 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.
  ·Someone else published the results first(2017) (Note: We were first to put the results on arxiv(2016)),
  · Main contributor to the paper (The problem was solved alone. The field demands alphabetical order)

- 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

- 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

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