

## Education

- 2018–2020 **M.Sc. in Computing Science**, *Simon Fraser University, Burnaby, BC*,  
*Supervisor: Prof. Joseph Peters*, CGPA 3.69/4.
- 2012–2014 **B.Sc in Computer Engineering**, *Sharif University, Tehran, Iran*,  
*Dissertation Supervisor: Prof. Mohammad Ghodsi*, CGPA 3.13/4.

## Experience

- Jun.2021– **ML Engineer**, MOSAICAPP – *HR Management Software*, Vancouver, British Columbia.  
May.2022 *Python, Pytest, SQL, GCP, Pandas, Asyncio, NLP*
  - Developed the product's core recommendation system.
  - Developed the backend data to ML model pipeline.
  - Implemented NLP pipeline V0.
  - Created a test suite for the ML framework.
- Jan.2018– **Software Developer**, VIDEOBOOM – *AdTech*, Tehran, Iran.  
May.2018 *Python, MongoDB, OpenRTB, Microservices, REST API*
  - Designed a microservice real-time video ad auctioning server.
  - Developed the DSP (demand side supplier) microservice.
- Oct.2017– **Software Developer**, PEEYADE – *End-user Application*, Tehran, Iran.  
Jan.2018 *Python, MongoDB, Elasticsearch, REST API*
  - Built a search system for locations/events/content.
  - Exposed a REST API.
- Jan.2013– **Software Developer**, TEZLABS – *ERP Software*, Tehran, Iran.  
Oct.2017 *PHP, Javascript, MySQL, Symfony*
  - Reengineered the legacy ERP system and its underlying framework.
  - Turned coupled PHP5 code into object oriented PHP7 code.
  - Held workshops on OOP and the new ERP framework.
  - Created a test suite for the system.

## Selected Projects

- Summer 2020 **Adaptive Influence Diffusion**, Masters Thesis, Simon Fraser University.  
*Influence Diffusion, Graph Analysis, Algorithms and Complexity*
  - Proved the Greedy Algorithm's indifference to adaptive feedback.
  - Proved the Greedy Algorithm's high performance measure without feedback.
- Spring 2019 **Biased-attention Image Classifier**, Deep Learning Project, Simon Fraser University.  
*Deep Learning, Python, Pytorch, Slurm*
  - Designed a general attention module for convolutional neural networks.
  - Ran 1000s of experiment sets on ComputeCanada servers using Slurm.
  - Shrunk a network by 30% without loss of accuracy.
- Spring 2017 **Connected Components of Erdős-Rényi Graphs in Map-Reduce**, Undergraduate Thesis, Sharif University.  
*Map-reduce, Graph Analysis, Algorithms and Complexity*
  - Designed a Map-reduce algorithm to compute connected components in Erdős-Rényi random graphs.
  - Best-to-date map-reduce round complexity.

- Summer 2015 **Parallel Skyline Computation**, IEEE MEMOCODE Competition, IPM, Iran.  
*Concurrency, GPGPU, CUDA, C++*  
○ Researched a GPU algorithm to compute the skyline operation over dynamic data points.  
○ Our team placed 2nd. Results page: <http://memocode.irisa.fr/2015/designcontest.html>
- Spring 2014 **Custom Process Scheduling in the Linux Kernel**, Operating Systems Design Project, Sharif University.  
*Kernel Programming, C*  
○ Implemented Multi-level Feedback Queue process scheduling in a FreeBSD kernel.
- Winter 2014 **Predicting Properties of Nano Particles through Visual Features**, Publication, Sharif University.  
*Image Processing, C++, OpenCV*  
○ Extracted morphological features to predict properties of nano particles from electron microscopy images.  
Published in RSC Advances 2014.  
○ Publication link: <https://pubs.rsc.org/en/content/articlelanding/2014/ra/c4ra10375k>

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## Technical Skills

- Strengths** Python, OOP, SQL, Testing, Algorithms and Complexity, Graph Analysis.
- Practical Experience** GCP stack, Pytorch, Pandas, Django, Deep Learning, NLP, NoSQL, Concurrency.

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## Etc.

- Languages:** Persian, English, German.
- Free Study:** Mathematics, Psychology.
- Rest:** Nature, Swimming, Food, Music, Meditation.