







# Farzad ABDOLHOSSEINI

## M.Sc. in Computer Science | B.Sc. in Software Engineering

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## ✓ ABOUT ME

Experienced in **machine learning** and **data science**, with a software engineering background.  
Published works in **computer vision**, **reinforcement learning**, and **bioinformatics**.  
Witnessed a successful startup exit with Xnor.ai ([bit.ly/39eWVnM](https://bit.ly/39eWVnM)).

## EDUCATION

2017 - Oct 2019 **M.Sc. in Computer Science (Machine Learning)** at the **University of British Columbia**. GPA : 4.0  
2013 - July 2017 **B.Sc. in Software Engineering** at **Sharif University of Technology**. GPA : 94%  
2009 - July 2013 Diploma in Mathematics and Physics Discipline at Allame Helli 1 High School. GPA : 99%

## PROFESSIONAL EXPERIENCE

June 2020 Now	<b>Software Engineer, APPLE CANADA INC.</b> <ul style="list-style-type: none"><li>Development of computer vision models.</li><li>Improving power and latency usage of existing models.</li></ul>
Oct 2019 to Jan 2020	<b>Machine Learning Engineer, XNOR.AI CANADA</b> <ul style="list-style-type: none"><li>Research and implementation of neural architecture search methods for latency minimization.</li><li>Developed a GPU-friendly weighted matching algorithm with possible uses in key-point estimation.</li></ul>
Sep 2014 to Dec 2015	<b>Back-end Developer, NOAVARAN SARAMAD SHARIF</b> <ul style="list-style-type: none"><li>Collection and curation of financial data for <i>Arzesh</i>, as well as maintaining the back-end.</li><li><i>Arzesh</i> is a financial platform developed for stock traders similar to Google Finance.</li></ul> <div><span>SQL</span> <span>Django</span> <span>Nginx</span> <span>REST</span></div>

## HONORS AND AWARDS

2013 **Bronze Medal** in the International Olympiad in Informatics (IOI), Brisbane, Australia.  
2012 **Gold Medal** in the Iranian National Olympiad in Informatics (INOI), Tehran, Iran.

## SELECT PUBLICATIONS

2022	<b>CVNets: High Performance Library for Computer Vision</b> <i>Sachin Mehta, F. Abdolhosseini, Mohammad Rastegari</i> . ACM Multimedia (2022), Lisbon, Portugal. <div><span>Computer Vision</span> <span>Deep Learning</span> <span>Open Source</span></div>
2019	<b>On Learning Symmetric Locomotion</b> <i>F. Abdolhosseini, Hung Yu Ling, Zhaoming Xie, Xue Bin Peng, Michiel van de Panne</i> . Proc. ACM SIGGRAPH Motion, Interaction, and Games (MIG 2019). Also at the NeurIPS Deep Reinforcement Learning Workshop (2019). <div><span>Reinforcement Learning</span> <span>Computer Animation</span> <span>Locomotion</span></div>
2017	<b>Using Deep Neural Networks to Understand the Cell Identity by Expression Fingerprints</b> <i>F. Abdolhosseini, A. Maazallahi, A. Kamal, H. Chitsaz, A. Sharifi-Zarchi</i> . Scientific Reports volume 9, Article number : 2342. <div><span>Bioinformatics</span> <span>Gene Expression</span> <span>Autoencoders</span> <span>Torch7</span></div>