

<b>Summary of Qualifications</b>	LANGUAGES: C, C++, Python, JavaScript, Java TOOLS AND TECHNOLOGIES: PyTorch, Cassandra, React, Node.js, Git, L <sup>A</sup> T <sub>E</sub> X	
<b>Education</b>	<b>Candidate for Master of Science in Computer Science (MSc)</b> University of Toronto	2018 – 2020 (expected) Toronto, ON
	<ul style="list-style-type: none"><li>• <i>Advisor:</i> <a href="#">Gennady Pekhimenko</a>, EcoSystem Group (Computer Systems and Networks)</li></ul>	
	<b>Bachelor of Software Engineering (BSE)</b> University of Waterloo	2013 – 2018 Waterloo, ON
	<ul style="list-style-type: none"><li>• 95% Cumulative Average, Graduated with Distinction and on the Dean's Honours List</li></ul>	
<b>Teaching Experience</b>	<b>Teaching Assistant</b> CSC 209 – Software Tools and Systems Programming	University of Toronto Fall 2018, Winter 2019
<b>Professional Experience</b>	<b>Facebook</b> Menlo Park, CA	Software Engineering Intern September – December 2017
	<ul style="list-style-type: none"><li>• Utilized C++ to develop a new queuing service for the Async Tier—Facebook's asynchronous job execution platform, responsible for handling tens of millions of jobs per minute.</li><li>• Designed and implemented a mechanism to reschedule failed jobs, requiring development across new and legacy infrastructure services on the Async Tier.</li><li>• Improved operational efficiency by implementing scripts to facilitate database shard management.</li></ul>	
	<b>Facebook</b> Menlo Park, CA	Software Engineering Intern January – April 2017
	<ul style="list-style-type: none"><li>• Implemented robust Java code diagnostics for <a href="#">Nuclide</a>, enabling Java editing support for massive projects with over 60,000 source files.</li><li>• Engineered and developed Nuclide's Java type resolution mechanism, which was capable of handling source code files with more than 10,000 transitive dependencies.</li><li>• Added partial rendering to the Nuclide console, increasing the number of entries that could be retained in the user interface by 20 times.</li></ul>	
	<b>Apple</b> Cupertino, CA	Software Engineering Intern May – August 2016
	<ul style="list-style-type: none"><li>• <a href="#">Contributed to Apache Cassandra</a> to improve disaster recovery across data centers.</li><li>• Prototyped a Cassandra partition blacklisting mechanism in Java to support over 115,000 nodes in production.</li><li>• Improved Cassandra timeout enforcement and introduced custom per-query timeouts</li><li>• Enhanced Cassandra error handling to enable error propagation from replica nodes to clients.</li></ul>	
	<b>Coursera</b> Mountain View, CA	Software Engineering Intern September – December 2015
	<ul style="list-style-type: none"><li>• Developed a near real-time course tracking tool by leveraging Scala, Kafka, and JavaScript with React—providing an aggregate view of over 1700 courses on Coursera.</li><li>• Wrote a scheduled job in Scala to validate user role invariants across multiple data stores.</li><li>• Utilized Scala and JavaScript with React to build a suite of administrative course editing tools end-to-end, replacing legacy tools that lacked comprehensive validations.</li></ul>	

**Professional Experience (continued)**

- Coursera** Software Engineering Intern  
Mountain View, CA January – April 2015
- Engineered robust course authoring tools using React and Flux that were made available to over 100 Coursera partner institutions.
  - Built the front end for an instructor to learner mass email communication tool. This tool has been used to send out over 800,000 emails.

**Milq (now Layer 6 AI, acquired by TD Bank Group)** Full Stack Software Engineering Intern  
Toronto, ON May – August 2014  
Milq was a social network aimed at organizing playable content with over 10,000 registered users.

- Developed the tag page—an aggregation of content about a specific hashtag.
- Engineered scalable data API endpoints in Node.js using Redis and MongoDB to deliver matched content to the tag page.
- Developed functionality that fetched, resized, and stored video thumbnails into an Amazon S3 bucket for new and existing content added to Milq.

**Awards and Honours**

- NSERC Canada Graduate Scholarship (Master's) April 2019
- Snap Research Scholarship January 2019
- Vector Institute Scholarship in Artificial Intelligence November 2018
- Queen Elizabeth II Graduate Scholarship in Science and Technology September 2018
- Wolfond Fellowship, University of Toronto September 2018
- Sandford Fleming Foundation Award for Academic Excellence June 2018
- University of Waterloo Faculty of Engineering First in Class Award May 2017
- Wish Scholarship, University of Waterloo January 2016
- University of Waterloo Faculty of Engineering Upper Year Scholarship May 2015
- Software Engineering Entrance Scholarship, University of Waterloo September 2013
- University of Waterloo President's Scholarship of Distinction September 2013
- Toronto District School Board Top Scholar (Highest Graduating Average) June 2013