

Summary of Qualifications

LANGUAGES: C++, Java, JavaScript, Python
TOOLS AND TECHNOLOGIES: Cassandra, RxJava, React, Buck, Node.js, Redis, Git, Mercurial

Professional Experience

Facebook Software Engineering Intern
Menlo Park, CA January – April and September – December 2017

- 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.
- Designed and implemented a mechanism to reschedule failed jobs, requiring development across new and legacy infrastructure services on the Async Tier.
- Implemented robust Java code diagnostics for [Nuclide](#), enabling Java editing support for massive projects with over 60,000 source files.
- Engineered and developed Nuclide’s Java type resolution mechanism, which was capable of handling source code files with more than 10,000 transitive dependencies.

Apple Software Engineering Intern
Cupertino, CA May – August 2016

- [Contributed to Apache Cassandra](#) to improve disaster recovery across data centers.
- Prototyped a Cassandra partition blacklisting mechanism in Java to support over 115,000 nodes in production.
- Enhanced Cassandra error handling to enable error propagation from replica nodes to clients.

Coursera Software Engineering Intern
Mountain View, CA January – April and September – December 2015

- 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.
- 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.
- Engineered robust course authoring tools using React and Flux that were made available to over 100 Coursera partner institutions.

Milq Full Stack Software Engineering Intern
Toronto, ON May – August 2014

Milq is 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. (Read more here: milq.com/bead/milq-blog/29)

Awards

- University of Waterloo Engineering Faculty First in Class Award May 2017
- Wish Scholarship January 2016
- University of Waterloo Engineering Faculty Upper Year Scholarship May 2015
- Toronto District School Board Top Scholar (Highest Graduating Average) July 2013
- Software Engineering Entrance Scholarship, University of Waterloo June 2013
- University of Waterloo President’s Scholarship of Distinction June 2013

Education

Candidate for Bachelor of Software Engineering (BSE) 2013 – 2018 (expected)
University of Waterloo Waterloo, ON

- 95% Cumulative Average, Dean’s Honors List