

## Technical Skills

**Programming Languages:** Javascript, Java, Swift, HTML5/CSS, C++, VHDL, Assembly

**Web Technologies:** Node.js, Java Spring Framework, Angular 2-5, MongoDB, Elasticsearch & Logstash, GraphQL

**Concepts:** Object-Oriented Programming, Cloud, OpenID Connect, Version Control (Git), REST, MVC

## Work Experience

### RBC – Amplify Software Developer Co-op

May 2018 – August 2018

*Amplify Challenge:* How to transform the Bill Payment Recovery process at RBC with Cloud and AI technologies

*Tools Used:* Node.js, React.js, Elasticsearch, Logstash, Kibana

- In a team of two Developers, a UI/UX designer and Business Analyst we designed a new backend infrastructure to securely access and perform analyses on large datasets, accelerating recovery times for incorrect payments.
- Awarded a provisional patent for the algorithm implemented in our error detection strategy

### RBC – Full Stack Developer Co-op

January 2018 – April 2018

*Tools Used:* Java Spring Framework, Zuul gateway service, Angular 5, PostgreSQL, Swift

- Worked on developing RESTful APIs and authentication mechanisms for RBC Backpack, an internal application
- Optimized front to back-end database queries to improve user experience on Backpack's dynamic web pages
- Wrote an internal iOS application to gamify RBC's Technology and Innovation leadership model

### RBC – Backend Developer Co-op

May 2017 – December 2017

*Tools Used:* Javascript (Node.js and AngularJS), with MongoDB and Elasticsearch databases

- Worked collaboratively on internal applications and followed agile development methodologies
- Developed features for OAuth client authorization across Development and QA environments
- Wrote a proof-of-concept application to demonstrate Elasticsearch performance on various data sets
- Managed and maintained applications in IBM's Bluemix cloud service solution

### Engineering Outreach at the University of Waterloo – University Leader

May – August, 2015 & 2016

*Tools Used:* Arduino Uno, Adobe Photoshop, Powerpoint

- Designed, budgeted and lead 4 month long technology curriculums for upper year elementary students
- Helped foster a passion for using computers and teaching programming languages in the community
- Honed effective communication and time-management skills in team settings

## Side Projects(s)

### 4x16 Binary Decoder, 2016 – Portable Circuit Board

- Created a portable circuit board that can take any 4 byte digital signal and return a single byte in a 16-bit array
- Designed with Eagle CAD software with the final product shipped from China
- Intended for use with Arduino circuit boards

## Education

### University of Western Ontario

Expected Graduation: May 2019

**Bachelor of Computer Engineering** (B.E.Sc. Computer Engineering with Internship)

## Extra-curriculars and Involvement

### Clubs & Events

- **Western Electronic Gaming Association, VP 2016 - 2018:** I organize events for the online game Hearthstone!
- **Sunstang, Solar Race Car 2014 - 2016:** Helped develop Arduino apps in the telemetry division

### Athletics

- **Western University Varsity Water Polo 2016 - 2018:** My strength is speed; I setup plays from the wings
- **Annual Western Charity Terry Fox Run, 2014 – 2018:** Avid runner, love competing in charity events