

### **Technical Skills**

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

Web Technologies: Node.js, Java Spring Framework, Angular 2-5, MongoDB, Elasticsearch, GraphQL, Mocha Concepts: Object-Oriented Programming, Cloud, Version Control (Git), REST, MVC, Unit/Integration Testing

### **Work Experience**

# RBC – Amplify (Full Stack) Software Developer Co-op

May 2018 – August 2018

Tech Stack: Node.js, React.js, Elasticsearch, Logstash, Kibana

- 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 my error detection strategy

### RBC – Full Stack Developer Co-op

January 2018 - April 2018

Tech Stack: Java Spring Framework, Zuul gateway service, Angular 5, PostgreSQL, Swift

- Worked on developing RESTful APIs and authentication mechanisms for RBC Backpack
- 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

Tech Stack: Node.js, AngularJS, MongoDB, Elasticsearch

- 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

#### Project(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 1018: 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