Jake Raw

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Technical Skills

Programming Languages: Javascript, Java, Swift, HTML5/CSS, C++, VHDL, Assembly
Web Technologies: Node.js, Java Spring Framework, Angular 5, MongoDB, Elasticsearch, GraphQL
Concepts: Object-Oriented Programming, Cloud, OpenID Connect, Version Control (Git), REST, MVC

Work Experience

RBC – Amplify Software Developer May 2018 – Present
Amplify is a four month long competition where 24 groups of four students compete to develop and present a solution, given a problem statement currently facing RBC. I am excited to be part of Amplify 2018 as a student developer this term.

RBC – Full Stack Developer Co-op January 2018 – April 2018
Tech Stack: Java Spring Framework, Zuul edge 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 the group leadership model

RBC – Backend Developer Co-op May 2017 – December 2017
Tech Stack: 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

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 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 – Portable Circuit Board
Tools Used: Eagle CAD
- 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.Eng)

Extra-curriculars and Involvement

Clubs & Events
- **Western Electronic Gaming Association, VP:** I organize tournaments for the online card game Hearthstone!
- **Sunstang, Solar Race Car 2015 & 2016:** Helped develop Arduino apps in the telemetry division
- **Hack Western 2015 & 2016:** Participated in Western's 2nd and 3rd annual hackathon

Athletics
- **Western Ontario Varsity Water Polo:** My strength is speed; I help the team by setting plays from the wings
- **Annual Western Charity Terry Fox Run, 2014 – 2017:** Avid runner, love competing for charity