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 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