Jake Raw

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Technical Skills

Programming Languages: Javascript, HTML5/CSS, C++, Java, VHDL, Assembly
Web Technologies: Node.js, AngularJS, Angular2 with Typescript, Express.js, MongoDB, Elasticsearch
Concepts: Object-Oriented Programming, OpenID Connect, Version Control (Git), REST, MVC

Work Experience

RBC – Full Stack Developer Co-op   May 2017 – Present
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

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

Projects

Gamers Network – Project (individual)
Tools Used: Javascript MEAN stack
- Created a LinkedIn style web app targeted for Esports athletes (professional video game players) to network
- Used Twitter Bootstrap to create a clean and accessible user interface

4x16 Binary Decoder – Project (Individual)
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

Pebble Text Talk App – Project (Group) – Open Source
Tools Used: C (programming language), Google Speech API
- Created a pebble watch application designed for assisting people with hearing impairments
- Used Google's free speech recognition API to convert any missed conversation to the pebble watch's screen

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 – 2016:** Avid runner, love competing for charity