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John Fish

Education

2013–present **High School**, *Sir John A Macdonald S.S.*, Waterloo, Grade 12.

2015 **QCSYS**, *University of Waterloo*, Waterloo.

QCSYS is an international conference of young students for quantum cryptography.

Work Experience

June 2016 – **Software Developer Intern**, *Shopify Plus*, Waterloo.

August 2016 At Shopify, I worked on a team of 10-15 as a software developer intern. I wrote core functionality for upcoming features, primarily using Ruby on Rails but also a variety of web technologies (React/Relay, GraphQL, etc).

June 2015 – **Highschool Leader**, *ESQ*, Waterloo.

August 2015 I developed and presented STEM curriculum to campers. My primary specialty was in computer science.

Projects

May 2016 **A Novel Method in Tree Biomass Calculation**, *CWSF 2016*, Python, OpenCV.

Through a novel method in computer vision research, the biomass of samples of huge numbers of trees were monitored in a efficient manner with a high degree of accuracy.

February **Intercode**, *Code.Summit()*, HTML, CSS, Javascript.

2016 I was the primary front-end and secondary back-end developer on Intercode, a top 100 project at Code.Summit() 2016 designed to teach users how to code.

October 2015 **Timber**, *Waterloo CODEfest*, HTML, CSS, Javascript.

I was the primary front-end developer on Timber, the app that won the Waterloo CODEfest civil hackathon. The app maps all the trees in the region and allows the crowdsourcing of tree reporting in a social fashion.

September **Muse Grip**, *Hack the North*, Python, C++.

2015 For the muse grip project, I developed a prosthetic hand that could be controlled via jaw clenches.

Programming Languages

HTML/CSS Advanced

JS (jQuery) Advanced

Python Advanced

Java Advanced

C++ Intermediate

Ruby Intermediate

Notable Awards

Breakthrough **National champion, International Finalist.**

Challenge I was the national champion for the 2015 breakthrough challenge in science education, and a top 15 finalist internationally.

Track and **Provincial Champion, National Silver Medallist.**

Field I am a two-time individual national silver medalist over the 800m and 1500m distances. I was also the Ontario champion over 800m, and a nominee for Ontario youth distance athlete of the year in 2016.

CWSF **National Silver Medallist.**

I attended the Canada Wide Science Fair in 2016 and won a silver medal with a score of 96%.

WWSEF **Award(s) of merit, Gold Medallist.**

I am a winner of two Awards of Merit and multiple gold medals for my projects at the Waterloo Wellington Science Fair.