

John Fish

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Education

- 2017-Present **Harvard College**, Cambridge, MA.
I am pursuing an undergraduate degree in Computer Science at Harvard College.
- 2013–2017 **High School**, *Sir John A Macdonald S.S.*, Waterloo, Ontario.

Work Experience

- June 2016 – **Software Developer Intern**, *Shopify Plus*, Waterloo.
August 2016, At Shopify, I worked as a full stack web developer on two major projects for Plus (enterprise level) merchants.
June 2017 – I worked on a Ruby on Rails stack with a React frontend to develop apps that could scale to handle hundreds of thousands of requests a minute. One of these projects involved working on a custom typed language which implemented a Hindley-Milner type system.
August 2017
- 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 2016 **Intercode**, *Code.Summit()*, HTML, CSS, Javascript.
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 2015 **Muse Grip**, *Hack the North*, Python, C++.
For the muse grip project, I developed a prosthetic hand that could be controlled via jaw clenches.

Programming Languages

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|----------|----------|------------|--------------|
| Ruby | Advanced | Java | Advanced |
| Python | Advanced | Javascript | Advanced |
| HTML/CSS | Advanced | C++ | Intermediate |

Notable Awards

- Breakthrough Challenge **National champion, International Finalist.**
I was the national champion for the 2015 breakthrough challenge in science education, and a top 15 finalist internationally.
- Track and Field **Provincial Champion, National Silver Medallist.**
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.