

# Jonathan Wu

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## Experience

### U-Help Foundation

Summer 2017

Lead Web Designer and Developer | **HTML, CSS, jQuery, PHP, Adobe Ps & Ai**

- Improved company brand identity and outreach by building a platform to receive donations and connections.
- Prototyped and illustrated wire frames, graphics, and functionality to help client envision their ideal website.
- Ensured mobile and major browser compatibility through responsive design of the website.
- Developed custom WordPress theme from scratch to enable the client to easily modify web content.
- Provided user training to ensure the client can be self-sufficient in administering and updating the website.
- To ensure robustness, unit and functionality testing was conducted on all aspects for the UI and experience.

### Ontario Teachers' Pension Plan

Summer 2015 & Summer 2016

Information Technical Analyst | **Java, VBA**

- Generated significant time savings for team leads by independently designing, programming, and implementing a scheduler application to streamline and automate manual timetable creation processes.
- Significantly reduced incoming printer installation service requests by constructing Java software to provide clients a visual and intuitive interface for printer driver installation and network mapping.
- Streamlined the hiring process and increased productivity for the HR department by creating VBA Excel Macros.
- Reduced redundant troubleshooting of problems and increased productivity in team by producing comprehensive documentation on frequent problems into the knowledge base.

## Education

### Bachelors of Science, Honours Computer Science

August 2018

Minor, Economics  
Wilfrid Laurier University

### Notable Classes Taken

BU111 – Understanding the Business Environment, BU121 – Functional Areas of the Organization, CP213 – Object-Oriented Programming, CP317 – Software Engineering, CP363 – Databases, CP372 – Computer Networks, CP386 – Operating Systems, CP469 – iPhone Application Programming, CP460 – Applied Cryptography

## Selected Projects and Passions

### Projects

#### Fully Modular Keyboard

SPI Keyboard Modules | **Arduino**

Prototyped magnet connected keyboard modules, using a custom designed PCB and the SPI protocol for module communication.

#### DIY Electric Skateboard

Raspberry PI Wireless Electric Skateboard | **Python**

Designed and created an electric skateboard, implemented using a RPi for both speed control and Bluetooth connectivity. Additionally developed an on/off switch PCB for high voltage.

#### WealthBeing

Money Saving WebApp | **Ruby on Rails, HTML, CSS, jQuery**

Implemented core functionality, rounding off daily spendings and depositing it into a WealthSimple investment account, additionally responsible for full front-end of web app.

#### Robocop

License Plate Recognition Software | **C++, Swift**

Assisted with implementation of text recognition and UI in iOS. Conducted tests and polished product for demonstrations.

#### Aura

Consumer Telepresence IoT Device | **Arduino, Swift**

Mentored team on using Swift and aided in implementing Core Motion into the app.

### Skills

#### Languages :

Java, C, Python, HTML, CSS, JS, Swift, SQL, Ruby

#### Tools and Software :

Adobe Photoshop & Illustrator, Eclipse, XCode, Git, CAD Software, EAGLE, VMware, Office365

### Interests

#### Hobbies :

- Mech Keyboard enthusiast and community member
- Built 3D printer and 3D modeler
- Part of a maker community/space
- Top 1% of League of Legend and CSGO players

#### Awards :

- 1<sup>st</sup> place at Hack the Night Away for 'Robocop'
- 2<sup>nd</sup> place at Hack the 6ix for 'Aura'
- Finalist in WealthSimple workshop for 'Wealthbeing'
- Duke of Edinburgh Silver award recipient
- Certified National Lifeguard