

# Jonathan



Developer  
Designer  
Maker

## Contact

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## Education

**Bachelors of Science,  
Honours Computer Science**  
Minor, Economics  
Wilfrid Laurier University

### Notable Classes Taken

BU111 – Introduction to Business  
BU121 – Functional Areas of the Org  
CP213 – OO Programming  
CP317 – Software Engineering  
CP363 – Databases  
CP372 – Computer Networks  
CP469 – iPhone App Programming  
CP460 – Applied Cryptography

## Languages

Java / C / Python / HTML / CSS / JS /  
React / Swift / SQL / Ruby

## Tools and Software

Adobe Photoshop & Illustrator / Git /  
RESTful / VMware

## Hobbies

- Mech Keyboard enthusiast and community member
- Built 3D printer and enjoy 3D modeling
- Member 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 bootcamp for 'WealthBeing'
- Duke of Edinburgh Silver award recipient
- Certified National Lifeguard

## Experience

### U-Help Foundation

Summer 2017

**Lead Web Design & 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.
- Ensured robustness by conducting unit and functionality testing on all aspects of the UI and experience.

### Ontario Teachers' Pension Plan

Summer 2015 & 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.
- Substantially 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.
- Reduced redundant troubleshooting of problems and increased productivity in team by producing comprehensive documentation on frequent problems into the knowledge base.

## Projects

### Shelf

**Automated Nutrition Tracking | Arduino, Python, OpenCV, HTML, JS**

Architected and developed, an automated nutrition tracking scale.

Constructed working prototype using camera modules and tension sensor.

### 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 high voltage switch PCB.

### WealthBeing

**Money Saving WebApp | Ruby on Rails, HTML, CSS, JS, 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 unit test and polished product for demonstrations.

### Aura

**Consumer Telepresence IoT Device | Arduino, Swift, HTML, CSS, JS**

Mentored team on using Swift and aided in implementing Core Motion into the app. Additionally aided in engineering robotics for project.