

# 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 / MongoDB / Swift / SQL / Ruby

## Tools and Software

Adobe Photoshop & Illustrator / Git /  
WSL / Lunacy / Inkscape / VMware

## Hobbies

- Web Development & UX/UI
- Mech Keyboard enthusiast and community member
- Built a 3D printer and enjoy 3D modeling
- Member of a maker community
- Top 1% of League of Legend, CS:GO and Hearthstone players

## Awards

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

## Experience

### Loblaw Company

November 2018 - Current

**Supply-Chain Developer | PowerShell, Python, SQL, Dynamics 365, Appian**

- Yielded \$1,000,000+ in workplace efficiencies with the standardization and engineering of a single automation-tool.
- Accelerated the deployment of production applications through the development of historical-data massaging and migration programs.
- Improved application usage and end-user quality of life after designing and implementing mobile form-factors for in-house tools.

### 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 when building the website from scratch.
- 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

### Laptop Picker

**Laptop Comparison Tool | Mongo, Express, React, Node, Web Scraping**

Engineered a laptop review web scrapper using Cheerio.js to feed information to React Front-end. TODO: Deploy with Docker onto AWS.

### Smart Shelf

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

Architected and developed an automated nutrition tracking shelf. Built a working hardware prototype and the end-user web application.

### Fully Modular Keyboard

**SPI Keyboard Modules | Arduino, KiCad**

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, EAGLE, CAD**

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.

## 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 the robotics for project.