

# 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 / Elixir / C / HTML / CSS / JS / React  
/ MongoDB / Swift / SQL / Ruby

## Tools and Software

Git / WSL / Adobe Suite / Gitlab CI/CD /  
VMware / Docker

## 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, BeatSaber and CSGO 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 Digital

November 2019 - Current

Software Developer | Java - Spring, Elixir - Phoenix, GCP, SQL

- Lead design and development of several features for cart, working with data science team and front-end teams to ensure data integrity and a bug free releases.
- Reduced API latency by 15% and improved performance for large carts by 25% by refactoring.
- Designed and coded new components for v2 cart service, redesigned aimed to improve performance, code quality and maintainability.
- Improved developer ramp up time, acting as a key contact for the onboarding of many team members, assisting with any tasks or inquires they may have.

### Loblaw Company

November 2018 - 2019

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.

### 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.

## Projects

### Smart Shelf

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

Architected and developed an automated nutrition tracking shelf. Built a working hardware prototype as well as 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.