

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

- 1st place at Hack the Night Away for 'Robocop'
- 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.