Jonathan

Wu

Developer

Designer

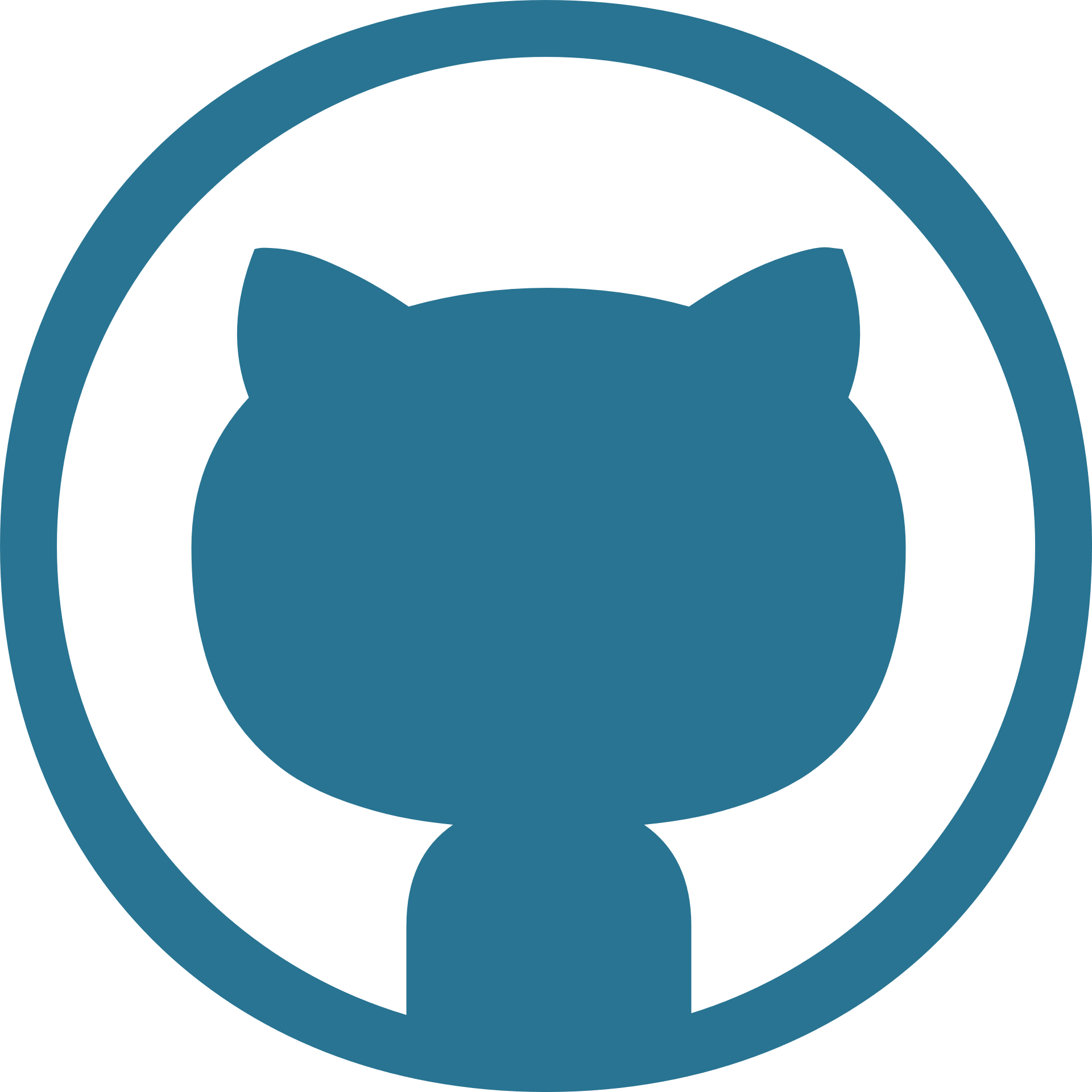
Maker

Contact

416-888-5198

[contactme@jonathanpwu.com](mailto:contactme@jonathanpwu.com)

[JonathanPWu.com](http://www.jonathanpwu.com/)

[github.com/wuwica](https://github.com/wuwica)

Education

Bachelors of Science,

Honours Computer Science

Minor, Economics

Wilfrid Laurier University

Languages

Elixir / Java / C / Python / HTML / CSS / JS / React / MongoDB / Swift / SQL

Tools and Software

Docker / GCP / Grafana / Git / WSL / Gitlab / Inkscape / VMware / Adobe Suite

Hobbies

* Web Development & UX/UI
* Mech Keyboard enthusiast and community member
* Owner of one of the most recognizable computers on the internet
* Built a 3D printer and enjoy 3D modeling
* Member of a maker community
* Top 1% of League of Legend, Valorant and Beatsaber players

Awards

* 1st place at Hack the Night Away for ‘Robocop’
* 2nd place for Aura at Hack the 6ix
* Finalist in WealthSimple bootcamp for ‘WealthBeing’
* [Duke of Edinburgh Silver](https://www.dukeofed.org/) award recipient
* Certified National Lifeguard

Experience

Loblaw Digital November 2019 - Current

Software Developer | Java - Spring, Elixir – Phoenix, GCP, PostgreSQL

* Lead design and development of several features for cart, working with data science and front-end teams to ensure data integrity and bug free releases.
* Revamped logging and metrics for several services, improving developer quality of life.
* Introduced CI/CD performance testing to incentivize better code quality and more consistent performance checks.
* Worked on solutioning for a high traffic high availability service which offered a 99.99% service availability.
* Reduced P95 API latency by 15% and improved performance for large carts by 25% by identifying and refactoring several key functions.
* Designed and built new components for micro services, 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.

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.
* 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. Planning to deploy onto AWS with Docker.

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.

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. Also 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.

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.