

# Jonathan Lam

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## Skills

Programming: Python, C#, HTML/CSS, JavaScript, React, PHP, PL/SQL, MYSQL  
Tools & Frameworks: Git, .NET, Jenkins, Bootstrap, Selenium, Docker  
Platforms: GitLab, ServiceNow, ArcGIS, QGIS, Azure DevOps  
SDLC: Agile, Kanban

## Experience

### Environment Canada | Software Developer Intern - Ice Web Applications

Ottawa ON | Sept 2019 – Present

- Reimplementing the [30-year Ice Atlas](#) using open source QGIS and OSGEO Python libraries. This revision is expected to be deployed by early 2021.
- Established a universal SGRID-3 compliant datasource (shapefile) using Oracle and Python OSGEO libraries. This datasource stores Geographical features used for the generation of derived products internally for dissemination to internal and external clients.
- Developed a MVC driven WPF toolbar add-on which allows users to prolong the expiration of checked-out catalogue images. Their respective records are updated in Oracle and further transferred onto another server via FTP.
- Constructed a .NET Class that makes POST requests with GitLab API for critical issue creation and tracking.
- Created simple NSIS and batch scripts for Jenkins to build and deploy installers into different environments.

### Ryerson University (LiTrans) | Research Assistant

Toronto ON | Apr 2019 – Sept 2019

- Prototyped the simulation of distributed traffic management systems on a Raspberry Pi 3 MPI Cluster of size 100 using MPICH and C under the supervision of [Dr. Farooq](#).

### Royal Bank of Canada | ServiceNow Developer Intern

Toronto ON | Sept 2018 – Dec 2018

- Developed front-end JavaScript forms and back-end workflows on ServiceNow for RBC MyMarketplace to be used by all RBC internal employees to issue tickets, request hardware, setup new hires, and more.
- Collaborated with Business Analysts to resolve critical front-end and workflow defects before deployment to production.

### Royal Bank of Canada | Quality Assurance Analyst Intern

Toronto ON | Apr 2018 – Sept 2018

- Wrote over 258 automated unit tests with Selenium WebDriver for regression testing.
- Implemented enhancements for automated procedures in Selenium WebDriver using Python which reduced regression testing time by 20% on average.

## Projects

### BSquared Engineering Diagnostic App | Electron · React · Tailwind CSS

[GitHub repo](#) | Present

- Implementing a cross-platform desktop application for grassroots drivers to visualize their track recorded data.
- Using this tool in combination with our sensors enables users to make educated choices to improve their track performance.

### EZPlanner | Intro to Web Systems Development: HTML/CSS · jQuery · PHP · MYSQL

[EZPlanner](#) | 2020

- Developed a simple Bootstrap web application that allows users to form groups and plan an imaginary vacation together. Data is served using jQuery Ajax POST requests with PHP from MYSQL.

### Ryerson Maps | Android Studio · Java · Firebase

[GitHub repo](#) | 2018

- Created a prototype application using Android SDK which provides directions to different buildings within the campus using Google Maps API for directions and Firebase for storing search history.

## Education

### Ryerson University | Honours BSc, Major in Computer Science

Toronto ON | Graduating Apr 2021

Relevant Courses: Algorithms, Web Applications, Database Systems, Software Tools for Startups

### University of Waterloo | Honours BSc, Minor in Biology

Waterloo ON | Sept 2012 – Oct 2016