

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*

- Leading the reimplementation of 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 stores Geographical features used for the generation of derived products for the 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*

- Generated 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*

- Constructed 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*