**Career Summary**

* Experienced in coding with various programming languages through four years of school assignments and projects.
* Having a solid knowledge of object-oriented programming and passion in software development especially web development.
* Have taken two Co-op work terms in WSIB and OPS as Business Analyst and Software Developer respectively while studying in U of T.
* A personal website and several other projects have been deployed using HTML5, Jquery, NodeJS and other JavaScript libraries.
* Having abilities of understanding business or system requirements derived from communicating with business team and translating requirements into codes during Co-op work terms.
* Willing to learn and master cutting-edge technologies.

**Technical Skills**

* Experienced in coding with Python, Java, C#, C, SQL, HTML5, CSS and JavaScript.
* Web Development: jQuery, Bootstrap, Nodejs, Ajax, REST, MongoDB and PeerJs.
* Operating Systems: Microsoft Windows 7/8 /10, Mac OS, Linux (Ubuntu), Unix.
* Development environments: Visual Studio IDE, Eclipse, Wing IDE, Android Studio, Sublime and Xcode.
* Strong knowledge of object oriented programming.
* Capable of understanding machine learning and data mining algorithms.
* Proficient with the Microsoft Office Suite (Excel, Word, Project, Access, Visio, PowerPoint, SharePoint) Pages, Numbers, Keynote, iMovie, Adobe Photoshop & Flash, Windows Movie Maker etc.
* Experienced with version control by using Git and subversion.
* SAS base (Statistical Analysis System) certified programmer.

**Education**

**University of Toronto Sept 2014 – June 2018**

Graduated, Honours Bachelor of Science

* Computer Science Specialist Program, Software Engineer Stream.

**Work Experience**

**Ontario Ministry of Government and Consumer Services**

**Software Developer Co-op, Business Solutions Cluster                         May 2017 – Sept 2017**

* Customized Microsoft Dynamics CRM by adding JavaScript to meet government requirements dealing with consumer complaints gathered online.
* Extended functionality of Microsoft Dynamics CRM by connecting it with various C# Plug-ins in order to generate complex reports for government officers.
* Conducted testing by writing test cases and doing manual testing in both DEV and QAR environment.
* Developed new version of Ontario consumer complaints website using C# .NET platform that integrated the Consumer Beware List and the Complaints Form together which serves millions of people across Ontario.
* Used SQL statements to pull data from the Oracle database and compare it with the record inside CRM to check the integrity of software.
* Slashed development time and costs 30% by meeting with business team to identify front-end user’s requirements, while ensuring the completeness of software.
* Made graphs of new integrated web solution and present to the manager to clarify the server distribution.
* Evaluated the risk of updating Microsoft Dynamics CRM 2011 to Microsoft Dynamics 365 and put down in a report for the management team to review.

**Work Place Safety & Insurance Board**

**Business Analyst Co-op, Supplier Management                                     Dec 2015 – Apr 2016**

* Created service level expectations for processes within the Supplier Management team.
* Conducted time studies and benchmarked industry standards with internal processes.
* Developed contract summaries for all Software vendors. Improved efficiency by approximately 1 hour daily $16,666 yearly.
* Created Supplier Inventory and Contract Summary training modules using Microsoft Visio and PowerPoint.
* Consolidated supplier information from multiple sources into a single excel database to allow for efficient access to supplier information. Improve efficiency by approximately 3 hours daily ($50000 yearly).
* Supported in updating Supplier Management System (SMS) using Microsoft Access.
* Assisted in Request for Quote (RFQ) process by preparing templates for the supplier managers.
* Identified process improvement opportunities and created business cases for executive level approval.
* Created project plans for 85 procurements using Microsoft Project.
* Provided guidance to Supplier Relationship team as a subject matter expert (SME) on the newly developed online Supplier Inventory and Contract Summaries.
* Consolidated IT Asset Management information into excel database for use in IT helpdesk procurement.
* Prepared and organized contracts (Master Service Agreement, Statement of work, Change Requests) for signing process.

**Relevant Projects**

* A 2D web game allows two players to chase each other in a map using jQuery, peerJS, Nodejs, MongoDB and Canvas writing interfaces and focusing on building peer-to-peer communication between browsers.
* A simulated flight-booking mobile application using Java and Android Studio which allows user to log in as client or admin, search and book flights offline in its database.
* A Unix software using Python that could monitor the changes of newly discovered exoplanets in NASA official database and merge the changes with astronomy professor’s exoplanets catalogue in Github.
* A web gallery using HTML5, CSS, JavaScript, Noedejs, Expressjs, Ajax and MVC (Model View Controller) model that allows user to log in, upload images and leave messages on the blog board.
* A machine learning project of implementing image watermark deduction by applying GMM (Gaussian mixture models) on the targeting image with watermarks using MATLAB
* A data mining as well as a machine learning project that uses various classification algorithms like K-NN (k-nearest neighbors) to classify large amount of keywords in news to get those high-frequency words.

**Volunteer Experience**

**Vision of Science Children Science Club** **December 2014 – May 2015**

Event Coordinator

* Assisted children with working on their science experiments, providing them historical background and motivating them with their interest in science.
* Ccommunication skills were derived from the experience of explaining basic scientific concepts and assisted them in using this knowledge to conduct experiments.
* Working with other volunteers and collaborating with other people in the group applied teamwork skills.
* Organization skills were developed from arranging time for each part of the experiment and ensuring that students conducted the experiments appropriately.

**Reference**

* Reference available upon request