

Liam A. Jones

Software Engineer

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<https://github.com/Neptuniam>

<https://ljones.ca>

Work Experience

Snappy Innovations, Toronto — Product Developer (VueJS)

May 2020 – August 2020.

Taken on the responsibility of leadership over exciting web applications built in VueJS and AngularJS. This role includes expanding upon and building several restaurant CRM web apps. These include making online orders, earning and redeeming punch cards and coupons, and the purchasing of store credits and gift cards.

Nobal Technologies, Calgary — Full Stack Web Development (VueJS & Laravel)

April 2019 – May 2020.

As a Full Stack Web developer, I have taken lead on the complete rebuild and redesign of Nobal's CMS (Content Management System) in order to provide both developers and clients with the most seamless experience when maintaining Nobal's iMirror. This involved rebuilding and expanding on a large range of features.

University of Guelph, Guelph — Teaching Assistant

September - December 2018

Temporary Teaching Assistant contract for the course CIS 2030: Structure and Application of Microcomputers. This experience allowed me to deepen my understand while providing a hands-on experience, to dozens of students at a time in labs working with the Motorola 68K motherboard for the first time.

Wilson's Lifestyle Center, Saskatoon — Landscaper

April - September 2018

IFCO, Guelph — General Labourer, Flexible Warehouse Work

April 2017 - April 2018

JAK Landscaping, Aberfoyle — Landscaper

April - September 2016

Marilu's Market, Burlington — Grocery Clerk

2013 - 2015 + Continued Part-time

Burlington Post, Burlington — Newspaper Delivery

2010-2013

Education

University of Guelph — Bachelor of Computing (Honours Computer Science)

2015 - 2019

Nelson High School - Academic Course Stream

2011 - 2015

Technology

Languages

- **Experienced in:** HTML, CSS, JavaScript, PHP, C, Java, Python.
- **Exposed to:** X68 Assembly, Cobol, Fortran, Ada, R.

Frameworks

- **Experienced:** VueJS + Vuex, Vue Router & Vuetify, Laravel, jQuery, UIKit, Flexbox Grid System.
- **Exposed to:** Ajax, JFlex, CUP, REST, MDB, Materialize, Bootstrap 3-5.

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Most Notable Projects

Nobal CMS — VueJS (HTML, CSS, JavaScript), and Laravel (PHP)

Have been given a large role on the team being put in charge of the complete remake of Nobal's CM. This includes; completely rebuilding the front-end using VueJS, UIKit and Flexbox grid system and integrating it nicely with the existing backend, written in php using Laravel. As time progresses, my role has evolved into a full stack position granting me with many responsibilities in order to provide many new features with a focus on databases.

Web Scraping — Python, Requests and BeautifulSoup

Using Python and libraries (Requests and BeautifulSoup) to extract relevant data from popular websites like the LCBO and Dribbble to streamline top posts and products into a database for custom API work or into messages using Slacks API.

Android App Development — Java, XML

Worked in a group using team management software like Redmine in an agile environment to progress on an open source app Android app called 'Remindly'. Focused on improving overall usability adding several organization features such as; reminder types. Priority levels, sorting algorithms based on selection, and location services

Personalized Web Pages — HTML, CSS, JavaScript, jQuery, VueJS, PHP, Laravel, and REST APIs.

- **Homepage** featuring favourite pages links, Google search, Yahoo weather/APIXU, Google maps, and basic JavaScript functions to learn proper web development practices using the Materialize CSS framework.
- **HomepageV2**: Personal Project rebuilt using VueJS and Laravel to allow for next level features, including full backend functionality to provide customization and personal settings and a personal notes app using markdown.
- **Online Resume** built using the MDB (Material and Bootstrap 5) CSS framework with integration of the GitHub repository listing API to fully demonstrate my skills and experiences as a programmer.
- **SurveyShip**: Front End for dynamically building and distributing surveys built in Vue and UIKit.
- **Other Websites**: Various small projects built using VueJS including; D&D language translator and a simple encryption system which can be found on my github.

School Assignments — Java, C, Python, Fortran, Ada, Cobol, Assembly

- **AI and Machine Learning**: Implementation of; Natural language processing, efficient search tree algorithms with different heuristic functions to solve complex problems, creating and using decision trees, and new algorithms.
- **Compiler**: Java application using high-level libraries; JFlex and CUP it fully takes advantage of the implementation of grammars to scan and parse code to detect syntax errors and translate into working assembly code.
- **Legacy Systems**: Simple scripts written in Fortran95, Ada, and Cobol.
- **Assembly**: Assembly written for Motorola 68k, producing recursive functions, IO polling, LED flashing lights, etc.
- **Algorithms**: Studied algorithms fundamental to Computer Science such as; efficient sorting, Preprocessing data, Boyer-Moore (String Searching), Dijkstra's Shortest Path (Optimal path finding)
- **Data Structures**: HashMap's, Linked Lists, Stacks/Queues, and Binary Trees.