

Liam A. Jones

Software Developer

(289) 828-2949

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<https://github.com/Neptuniam>

<https://ljones.ca>

Work Experience

Nobal Technologies, Calgary — Web Development (VueJS/Laravel)

April 2019 – January 2020

Internship + continued part time (remote) work on the web development team of Nobal Technologies. Taken lead on the complete rebuild and redesign of Nobal's CMS in order to provide both developers and clients with the most seamless experience for maintaining and working with Nobal's iMirror. As early as the second week, tasks included deciding which frameworks to use and designing abstract systems for the site to be built off.

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 gain hands on experience, helping to guide younger students as they take on the next phase of their careers as software developers working directly with dozens of students at a time in labs. It also allowed me to deepen my understanding of the low-level concepts involved in how computers operate.

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, Guelph — Honours Bachelor of Computing

2015 - 2019

Anticipated Graduation Date: December 2019.

I enjoy taking a wide variety of courses that dive deep into complex concepts such as; Advanced Algorithms and Data Structures, Low-Level Hardware and Assembly, Object-Oriented Programming, Team based Software Development, User Experience and Design, Boolean Algebra, Artificial Intelligence and Machine Learning, Legacy Systems, Game Design, etc.

Nelson High School, Burlington - Academic Course Stream

2011 - 2015

Languages

Experienced in: HTML, CSS, JavaScript, PHP, C, Java, Python.

Exposed to: X68 Assembly, Cobol, Fortran, Ada, R.

Frameworks

Experienced: VueJS, 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 CMS site. This includes; completely rebuilding the front-end using VueJS, Ulkit and Flexbox grid system and integrating it nicely with the existing backend, written in php using Laravel and adding many new features.

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 Ulkit.

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

Algorithms and Data Structures - C, Java, Python

Implementation of High-Level algorithms such as; MergeSort (Fast sorting algorithm), Presorting (Pre-sorting data to make run time access more efficient), QuickHull (Graph area inclusion), Boyer-Moore (String Searching), Dijkstra's Shortest Path (Optimal path finding), HashMap's, Linked Lists, Stacks/Queues, and Binary Trees.

Compiler —Java, JFlex, CUP

Compiler written for C-, a mock version of C. This project served as an in-depth learning aid for compilers. Written using Java using high-level libraries; JFlex and CUP it fully takes advantage of the implementation of grammars to scan and parse code to report accurate error messages. The C- code is then translated into Assembly to be run on a simulator.

Web Scraping — Python, Requests and BeautifulSoup

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

Chat System — HTML, C, Python, MySQL

Web-based chat system supporting user login and multiple chat streams integrated with a MySQL database.

School Assignments — Java, C, 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.
- 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.