

# Alan Vuong



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## Overview

Seeking a position in software or web development as part of the Information Communications and Technology field, with proficiency in programming, development, and data analytics.

## Education

<b>Computer Programming and Analysis</b> Advanced Diploma: Ontario College Degree Program Seneca College Toronto, ON 01/2018-11/2020	<b>Mechanical Engineering</b> Bachelor of Applied Science (B.A.Sc.) University of Toronto Toronto, ON 09/2011-04/2016
Programming, database and web technologies Data communications and security practices	Bioengineering, Mechatronics, and Energy streams Minor in Engineering Business

## Employment

<b>Data Analyst Co-op</b> City of Vaughan Vaughan, ON 09/2019-04/2020	<b>Millwork / Kitchen Sales Specialist</b> Lowe's Toronto, ON 10/2016-01/2018	<b>Co-op, Rail Equipment Engineering, DMU</b> Metrolinx Toronto, ON 10/2014-08/2015
Developed automated processes to extract information from various data formats, performing extraction, transformation, and loading procedures to create organized data repositories for analysis in a large variety of tables and dashboards  Collaborated in the creation of a Geographic Information System data request system, utilizing a variety of software along with LEAN methodologies, replacing manual processes with automated data flows to greatly reduce wait times	Provided professional consultation services to clients concerning the construction and/or renovation of kitchen layouts, offering product knowledge and design considerations to best suit their needs including styles, materials, and budgets  Developed strong working knowledge of door and window products to promote under a high stress environment, utilizing various software to assist both customers and coworkers	Assisted in commissioning and verification of the Diesel Multiple Units for the Union Pearson Express, writing up design spreadsheets and overseeing test procedures for multiple systems of the trains  Managed the Microsoft SharePoint DMU website, reviewing and approving technical documents submitted by the manufacturers and related stakeholders, to ensure the design features are in line with Metrolinx's needs and constraints

## Technical Skills

<b>Programming Languages</b>	C, C#, C++, Java, Python
<b>Web Development</b>	HTML/CSS/Javascript, React, Angular, ASP.net
<b>Database Technologies</b>	MongoDB, SQL, Oracle DB
<b>Data Integration</b>	Talend Open Studio, FME Desktop, QlikView, QlikSense
<b>Microsoft Office Suite</b>	Excel, Outlook, Power Automate, PowerPoint, Project, SharePoint, Word

## Technical Projects

<p><b>ClueWords</b> 2020-present GitHub: <a href="https://github.com/hatchways/team-fruit-loops">https://github.com/hatchways/team-fruit-loops</a></p> <p>Utilized the MERN stack with Material UI as part of a team project to create a web application version of the CodeNames board game</p> <p>Implemented authentication, profile image uploads, and WebSocket technologies to streamline the user experience and allow for real-time, multiplayer interaction</p>	<p><b>Portfolio Website</b> 2020-present Application: <a href="https://altiv.github.io/">https://altiv.github.io/</a> GitHub: <a href="https://github.com/AltivV/AltivV.github.io">https://github.com/AltivV/AltivV.github.io</a></p> <p>Utilized React with Material UI to create a personal website detailing work and project experience in an accessible fashion, including an operational contact form to allow for direct communication</p>
<p><b>Issue Tracker Web Application</b> 2020-present Application: <a href="http://issue-tracker-mern.herokuapp.com/">http://issue-tracker-mern.herokuapp.com/</a> GitHub: <a href="https://github.com/AltivV/Issue-Tracker">https://github.com/AltivV/Issue-Tracker</a></p> <p>Utilized the MERN stack with Bootstrap to create a full stack application that tracks user-submitted projects and corresponding issues</p> <p>Integrated full create, read, update, and delete methods in connecting a React frontend to MongoDB for creation and persistent storage of project, issue, and update data</p>	<p><b>Angular Client-side Data and Quiz Application</b> <a href="https://krrplus.web.app/">https://krrplus.web.app/</a> 2020-present</p> <p>Fully designed and developed single-page web application with Angular and Angular Material, deployed using Firebase to serve as a mobile application assistant</p> <p>Created multiple-choice quizzes using programmatically generated questions based on JSON data, utilizing timers and visible feedback for answer selection</p>
<p><b>Music Business Data Web Application (C#)</b> <a href="http://avuong19-wa2020a5.azurewebsites.net/">http://avuong19-wa2020a5.azurewebsites.net/</a> 2020</p> <p>Built a web application utilizing security concepts and data management for rich text and media files</p> <p>Created design model classes, view models, controllers, and Manager methods for artist, album, track, genre, and media item data with one-to-many and many-to-many associations</p>	<p><b>Political Information Website - CanPolls</b> <a href="http://myvmlab.senecacollege.ca:6736/home">http://myvmlab.senecacollege.ca:6736/home</a> 2019</p> <p>Implemented an Esri map for a political information website, incorporating various data layers between various levels of government through interaction with APIs</p>
<p><b>Angular API Demo</b> <a href="http://web422-final.herokuapp.com">http://web422-final.herokuapp.com</a> 2018</p> <p>Utilized multiple web development technologies to create a full-stack web application, allowing for persistent storage of employee and position data</p>	<p><b>Aid Management Application System (C++)</b> <a href="https://github.com/AltivV/OOP345-MS3">https://github.com/AltivV/OOP345-MS3</a> 2018</p> <p>Created a prototype application which deals with item management, categorizing perishable and non-perishable items along with any relevant information for shipment</p> <p>Displayed various intermediate level object-oriented programming concepts to greatly improve program efficiency and readability, including encapsulation, inheritance, and polymorphism</p>

## Awards and Certifications

Malca Litovitz Prize for Creative Writing ----- 2018