

Alan Vuong

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Overview

- Currently seeking a position in software or web development as part of the Information Communications and Technology field
- Proficiency in various development technologies including C++, web development, database CRUD operations, and general design practices
- Works effectively and cordially both independently as well as in team settings, bringing direct experience from various workplace settings
- Very quick and motivated learner with respect to new technologies

Recent Education

Computer Programming and Analysis	Seneca College	Toronto, ON	2018-present
<ul style="list-style-type: none">• Advanced Diploma: Ontario College Degree Program• Studied various computer programming topics covering C and C++ programming languages, database and web technologies, data communications, general design and security practices, and more			
Mechanical Engineering	University of Toronto	Toronto, ON	2011-2016
<ul style="list-style-type: none">• Degree: Bachelor of Applied Science (B.A.Sc.) - Faculty of Applied Science and Engineering• Minor in Engineering Business• Studied many technical courses revolving around math, science, and engineering, with particular focus on the Bioengineering, Mechatronics, and Energy streams			

Technical Skills

Programming Languages	C, C++, Python, Java
Web Development	HTML, CSS, Javascript, JSON/XML, jQuery, Heroku, Node.js, Angular, React
Database Technologies	PL/SQL, Oracle DB, PostgreSQL, MongoDB, IBMi/DB2
Cloud Computing	Dropbox, Google Drive, OneDrive
Operating Systems	Windows, Android
Microsoft Office Suite	Excel, Outlook, Powerpoint, Project, Word
IDEs / Text Editors	Microsoft Visual Studio, Visual Studio Code, Notepad++
Computer Aided Design	AutoCAD, Solidworks
Unified Modelling Language Tools	Draw.io, StarUML
Other Software	Finale, FL Studio

Technical Projects

Various Website Applications

2018-present

- Angular API Demo (Employees / Positions): <http://web422-final.herokuapp.com/>
- Employee Database / Image Upload System: <https://rocky-ravine-86840.herokuapp.com>
- Used multiple and current web development technologies to create full-stack web applications, allowing for persistent storage of data in employee, position, and image upload systems

Custom Game Developer - DOTA 2

2018-present

- Link to fork of repository: https://github.com/Altivu/dota_imba
- Used Lua (a programming language) to create many highly modularized files, creating customized abilities and event handlers that dynamically interact with the game environment
- Utilized a Git repository along with the Sourcetree Git GUI, practicing effective file management
- Contributed regular updates, bug fixes, and improvements to a highly visited custom mod within the main client, continuously implementing suggestions and recommendations from end users

Assembly Line Textual Simulation Application

2018

- Link to repository: <https://github.com/Altiv/OOP345-MS3/>
- Used C++ to create a prototype application which deals with an assembly line simulation, fulfilling predetermined orders and updating inventory to ensure all components are accounted for
- Displayed various intermediate level object oriented programming concepts to greatly improve program efficiency and readability, including STL containers, lambda functions, and inheritance

Capstone Design -

Hibar Systems Limited

2015-2016

Development of a Fill Tube

Manufacturing Process

- Designed a new manufacturing method for swaging and flaring a stainless steel fill tube to be used in Hibar's fluid dispensing pump systems
- Collaborated with a team throughout the academic year, brainstorming and completing various milestones leading up to the final completion of the prototype tool
- Created a technical poster outlining the key aspects of the design process and prototype, and presented these items in a professional environment at the Capstone Design Showcase

Employment History

Millwork / Kitchen Sales Specialist

Lowe's

Toronto, ON

2016-2018

- 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

Co-op, Rail Equipment Engineering, DMU

Metrolinx

Toronto, ON

2014-2015

- 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 alongside employees of the train manufacturer
- 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