Alan Vuong

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Overview

- Seeking a 4 or 8 month term co-op position in a programming or development role within the Information Communications and Technology Communications 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**

- **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**

- **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
Web Development	HTML, CSS, Javascript, JSON/XML, jQuery, Heroku, Node.js
Database Technologies	SQL, Oracle DB, PostgreSQL, MongoDB
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

Technical Projects

Various Website Applications   **2018-present**
- Registration Form Demonstration: https://altivu.github.io/registration-form/
- Employee Database / Image Upload System: https://rocky-ravine-86840.herokuapp.com
- Used HTML/CSS/Javascript technologies to create a real-time registration form, complete with customized stylization and tactile feedback with response to input fields

Custom Game Developer - DOTA 2   **2018-present**
- Used Lua to create highly modularized files spanning multiple facets of the environment, including various entities and their interactions upon the field and other entities
- 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, frequently implementing advice and recommendations from end users

Aid Management Application (C++)   **2018**
- Used C++ to create a prototype application which deals with item management, categorizing perishable and non-perishable items along with any relevant information for shipment
- Displayed various intermediate level object oriented programming concepts to greatly improve program efficiency and readability, including encapsulation, inheritance, and polymorphism

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   **Metrolinx**   **Toronto, ON**   **2014-2015**
Engineering, DMU
- 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