Brian Tran

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SKILLS

HTML • CSS • Bootstrap • JavaScript • jQuery • ASP.NET • SQL • UI Design
C# • C++ • Android • Git • Data structures and algorithms • Object-oriented programming • Agile development
High affinity for learning and problem-solving • Quick to pick up and understand new tools

EXPERIENCE

Web Developer   May – August 2016
Intellisoft Development Inc. | Toronto, ON

- Rebuilt the course search tool using HTML, CSS, jQuery, and ASP.NET with a CMS to return results over **200x faster**
- Implemented custom user analytics on the search tool using an SQL server, tracking over **1 million** visits per year
- Collected page visit data to display the most popular related courses, resulting in increased enrollment volume
- Collaborated effectively with teammates and clients to implement a site-wide cart for adding and comparing courses
- Performed cross-browser testing and ensured AODA compliancy to prepare projects for deployment

PROJECTS

Course Search Tool | HTML, CSS, jQuery

- Built and deployed a responsive course discovery page for George Brown College using HTML, CSS, and jQuery
- Loaded course and faculty data from an Ektron CMS in an ASP.NET code-behind file
- Generated a course data JSON file and retrieved it by AJAX request to use for filtering and searching
- Constructed a basic autocomplete algorithm that suggests courses as the user types

Course Comparison Cart | ASP.NET, jQuery

- Developed a shopping cart-like feature using ASP.NET master pages and jQuery to add and remove college courses
- Utilized both sessions and local storage for redundancy in storing course information that populated the cart pop-up
- Wrote a Javascript solution to work around back/forward caches to ensure cart data was up-to-date at all times

Indoor Navigation App | Android

- Filtered and passed phone sensor data through a finite state machine to accurately detect a user's heading and steps
- Formulated an algorithm to draw the shortest path to the destination and dynamically updated the user's position

Pic Processor | C#

- Built an image processing app in C# that allows users to apply transformations such as darken, scale, flip, and blur
- Performed kernel convolutions on groups of pixel objects to achieve an average blur effect

Chocolate Sweeper | C#

- Created a Minesweeper-like game using C# and core concepts of object-oriented programming
- Designed a recursive depth-first search algorithm to reveal adjacent cells when the user clicks a tile

ACTIVITIES

Orientation Week Leader | University of Waterloo

- Enthusiastically directed a team of over 50 first-years and worked with food logistics for all orientation participants
- Answered questions, provided advice, and showed school spirit to help new students feel comfortable and welcome

EDUCATION

University of Waterloo | B.A.Sc. Computer Engineering   September 2015 – April 2020

- Placed on the **Dean's Honours List** for the Winter 2016 term
- Coursework: Data Structures and Algorithms, Digital Computers, Digital Circuits, Design with Embedded Systems