Lisa Kirby

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ljkirby.com
github.com/ljkirby

EDUCATION

Sept. 2015 - Current
University of British Columbia (UBC), Vancouver
B.Eng. - Computer Engineering

TECHNICAL WORK EXPERIENCE

May 2017 - Sept. 2017
Web Applications Developer & IT Special Projects for the Canadian Federal Government
Public Services and Procurement Canada (PSPC), Vancouver, BC

- Built a web interface that enables users to update relevant SQL database tables using AJAX and ColdFusion – site is now used in production
- Worked within a team to develop and optimize the "Timeline Tool" project – a web application used to record, display, and schedule Government initiatives on a graphical timeline using the ASP.NET Model-View-Controller (MVC) architectural pattern
- Served all web maintenance and service requests for existing Pacific Region government web applications within a 24-hour timeframe

PROJECTS

Jan. 2017 - Current
ljkirby.com – A Personal Website
HTML/CSS, JavaScript

- Built an animated, responsive website that highlights my resume and accomplishments

March 2017 - April 2017
Cereal Monitor – A Smart Pantry Scale
HTML/CSS, JavaScript, Python/Raspberry Pi, C/Arduino

- Implemented a 'smart' application that measures the weight of pantry items and dynamically updates a shopping list to display items that fall under 35% of their initial weight
- Headed the design and implementation of the web application, which utilized JavaScript to retrieve and display python-parsed scale data

Feb. 2017 - March 2017
Autonomous Robot Car
C/Arduino

- Built an autonomous Arduino-driven robot that can intelligently navigate around objects and draw the Mona Lisa pixel-by-pixel

Dec. 2016
Virtual Ecosystem – A Simulation of Predator vs. Prey
Java

- Using the delegation pattern, implemented a virtual world filled with items, food, and intelligent rabbits and foxes that interact with and adapt to their surroundings

Oct. 2016
Twitter Analyst
Java

- Implemented a graph-based interface that identifies common influencers between users and the minimum number of times a tweet must be retweeted for it to appear on a specific user's feed
- Utilized Breadth First Search and Depth First Search algorithms for efficient graph traversal

TECHNICAL KNOWLEDGE

Programming Languages:	Java, JavaScript, C/C++, C#
Markup/Query Languages:	HTML, CSS, ColdFusion, SQL
Tools, Frameworks, & Libraries:	Git, JQuery, ASP.NET (MVC), Bootstrap, p5.js, AJAX