Cormac Mollitor

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TECHNICAL SKILLS

Ruby on Rails, AngularJS, Bootstrap, Java, Ruby, C, C++, JavaScript, HTML, CSS, Git, jQuery, Vis.js, D3.js, Docker, xAPI, Unix, Windows

CO-OP WORK EXPERIENCE

UBC Department of Chemistry (Vancouver, BC) **May, 2017 – December, 2017**

Software Developer Co-Op Student

- Developed front-end and back-end bug fixes and enhancements as well as unit tests for Alchemy, a scenario-based learning tool, using Ruby on Rails, AngularJS, HTML, CSS, Bootstrap, Git, and Docker
- Engaged in learning analytics R&D with a team of 4 software engineers to develop machine learning and data mining techniques, determine appropriate technologies, and design intuitive dashboards displaying learning analytics data to both students and instructors
- Participated in requirements gathering sessions with instructors, students, and TAs to gain insight on what features and improvements would make Alchemy an appropriate and rewarding technology

TECHNICAL PROJECTS

Online Interactive Resume (Personal Project) **September, 2017 – October, 2017**

- Developed a one-page online interactive resume using HTML, JavaScript, CSS, and Bootstrap
- Used the D3.js visualization library to add a proficiency level fill-up element that activates when a user hovers their mouse over a skill

Cereal Monitor (University of British Columbia) **March, 2017 – April, 2017**

- Designed an Internet of Things application using an Arduino, force-sensitive resistors, and a Raspberry Pi as a server that tracked a user's pantry items by weight and displayed them on a web application
- Created an intuitive web GUI using HTML, JavaScript, and CSS that showed users their consumption of each grocery and alerted them when they were running low on specific items
- Used the Google Charts API to create a real-time line graph that showed the levels of individual groceries over a ten-day period

Yelp Server (University of British Columbia) **November, 2016 – December, 2016**

- Designed a multithreaded server application in Java that could handle HTTP requests from multiple concurrent clients accessing a Yelp database containing restaurant, user, and review information
- Implemented a database holding over 10,000 JSON objects containing restaurant, user, and review data
- Used k-means clustering to group restaurants into location based neighborhoods and least squares regression to provide users with intelligent restaurant suggestions based on their past activity

EDUCATION

The University of British Columbia **September, 2015 – Present**

Faculty of Applied Science, Computer Engineering

ACTIVITIES AND INTERESTS

Cooking, Hiking, Bouldering, Top Rope Climbing, Programming, Table Tennis, Ice Hockey, Weightlifting