Cormac Mollitor

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Citizenship: USA

TECHNICAL SKILLS

Languages
- Java
- Ruby
- C/C++
- JavaScript
- HTML/CSS
- SQL

Frameworks/Libraries
- Ruby on Rails
- AngularJS
- Bootstrap
- jQuery
- D3.js
- Vis.js

Workflow Technologies
- Git
- Docker
- VS Code
- Eclipse
- C9.io
- Visual Studio

TECHNICAL WORK EXPERIENCE

UBC Department of Chemistry (Vancouver, BC) **May, 2017 – August, 2018**
Software Developer Co-Op Student
- Developed front-end and back-end bug fixes and features as well as unit tests for Alchemy, a scenario-based learning tool, using Ruby on Rails, AngularJS, HTML, CSS, Bootstrap, Git, and Docker
- Researched machine learning and natural language processing libraries to be used in a learning analytics pipeline
- 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

Cormacjmollitor.github.io (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

Internet Enabled Range Finder (University of British Columbia) **February, 2017 – February, 2017**
- Developed a range finding circuit using an Arduino Uno with a sonar sensor and internet capabilities that Tweeted alerts to the client when an object was detected within 1 meter
- Designed an intuitive GUI using Processing 3 that displayed distances with direction measured by the sonar sensor using a simplified radar screen format

EDUCATION

The University of British Columbia **September, 2015 – Present**
Faculty of Applied Science, Computer Engineering