SAMANTHA FENG

2B Biomedical Engineering Student at University of Waterloo

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(226) 792-9621

EXPERIENCE WITH:

C#, C++, MATLAB, Arduino, PHP, MongoDB + JSON Schemas, HTML/CSS, Jekyll + Markdown, Git, SolidWorks, R, Drupal, Linux, Project Management

FAMILIAR WITH:

Java, JavaScript (NodeJS, ReactJS), MySQL, SharePoint, Python

IN MY SPARE TIME:

Soccer + lacrosse player, knitter, skater + skier, avid traveller

RELEVANT EXPERIENCE

Web + Technologies Developer Jan – Apr 2017

Ontario Institute of Cancer Research – Toronto, Ontario

- Completed project management tasks relating to web development: feature analysis, task and ticket delegation, competitive analysis
- Tested and developed website features in an Ubuntu system using a local environment generated by VirtualBox and Vagrant
- Backed up MySQL databases for websites connected to a CMS
- Created database queries for MongoDB collections on a remote server by comprehending JSON Schemas for data
- Collaboratively coded by Bitbucket and understanding Git basics
- Styled ReactJS forms in a web application using CSS and webpack
- Solved production issues reported by clients for Drupal websites by modifying PHP templates, creating new content types, and styling of CSS

Technical Analyst Apr – Aug 2016

LOGiQ^3 Corporation – Toronto, Ontario

- Provided effective end-user support by troubleshooting technical issues
- Utilized CSS and SharePoint Designer to update company's intranet site
- Addressed all user requests and device updates in a timely manner

English Teacher Mar – Jul 2015

YouLang English Center – Hangzhou, China

- Generated lesson plans for teaching English to Chinese students preparing to study in a foreign country

PROJECTS

Processing and Filtering of IMU Data May 2017 - present

- Analyzed and filtered inertial data in Python dataframes
- Employed signal processing methods such as converting to data to global coordinates and removing bias and random walk variables

Freezing of Gait Detector Nov 2016 – Dec 2016

- Created working Arduino circuit for a portable medical device detecting and alleviating freezing of gait in Parkinson's disease in real-time
- Utilized MATLAB to analyze inertial data collected by circuit

Data Analysis Project Nov 2016

- Utilized R to analyze patterns of epithelial cells on the corneal surface resulting from the usage of contact lenses

EXTRACURRICULAR ACTIVITIES

Operations Associate – Engineers in Medicine Sept 2016 – present

Engineering Ambassador – University of Waterloo Jan 2015 - present