Tiffany Cheung

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SKILLS

LANGUAGES: Java, C++, C, MATLAB

MOBILE DEVELOPMENT: Android

WEB DEVELOPMENT: AngularJS, Ruby on Rails, HTML5, CSS3, JavaScript, JQuery, PHP, Node.js, MongoDB

EXPERIENCE

PHP SOFTWARE ENGINEER:

Mercatus Technologies (Toronto, ON)   *August 2015 - December 2015*

- Architected and designed multiple modules for e-commerce application
- Converted application to responsive design
- Integrated Karma testing framework into application and wrote unit tests for existing controllers and services
- **Technologies**: PHP, AngularJS, Twitter Bootstrap, Drupal

SIGNAL PROCESSING ALGORITHM DEVELOPER:

ON Semiconductor (Waterloo, ON)   *January 2015 - April 2015*

- Developed, improved, and tested audio processing algorithms to support C and MATLAB
- Automated sound room testing for voice trigger DSP at different signal-to-noise ratios in Java
- Built a GUI using PyQT to interface with an audio processing algorithm

SOFTWARE ENGINEERING CO-OP:

Grand Rounds (San Francisco, CA)   *April 2014 - August 2014*

- Worked across the full-stack on Ruby on Rails using MVC design pattern
- Coded front-end in HTML/5, CSS, and JavaScript
- Wrote unit tests for all new features and bug fixes with rspec
- Worked in the development of the first launch of company's mobile application built on enyo js
- Developed REST APIs on Puppet for internal usage

SYSTEM SUPPORT OFFICER:

Ministry of the Attorney General (Toronto, ON)   *August 2013 - December 2013*

- Provided support to printers, desktops, software and business applications
- Assisted with migrating enterprise databases from Access 1997 to 2007
- Wrote batch scripts to test Microsoft updates monthly

PC SPECIALIST:

Waterloo Regional Police Service (Cambridge, ON)   *January 2013 - April 2013*

- Responsible for the maintenance of PCs within the enterprise
- Performed troubleshooting, and installation of PC hardware and software

BACHELOR OF APPLIED SCIENCE, HONORS MECHATRONICS ENGINEERING CO-OP:

University of Waterloo (Waterloo, ON)   *September 2012 – April 2017*

OMNINAV (FOURTH YEAR DESIGN PROJECT):

- Designed and built a navigation belt for the visually impaired
- In charge of developing an Android App using Google Map's API to provide directions to the navigational belt with a touch screen and voice command interface
- **Technologies**: Arduino Microcontroller, IMU, Bluetooth, and Android
- **Website**: http://omninavtech.com
- **GitHub**: https://github.com/adijunnarkar/GBelt

PERSONAL WEBSITE:

- Created with AngularJS
- Personally designed and developed
- **Website**: https://www.tiffanymcheung.com
- **GitHub**: https://github.com/tm3cheun/tm3cheun

EMAILY (HACK PRINCETON):

- Developed a Facebook chatbot that reminds a user of the emails they have read but not responded to in the last 24 hours and offers choices to ignore or set another reminder to respond to emails
- **Technologies**: Node.js, Heroku, MongoDB, HTML5, CSS3, JavaScript, and Microsoft's cognitive AI Luis
- **Github**: https://github.com/davidshi1997/Emaily
- **DevPost:** https://devpost.com/software/emaily

REAL-TIME KERNEL:

- Developed a small real-time kernel for ARM Cortex-M3 Processor
- Supports task creation, multithreading, I/O (GPIO and peripherals), and system console on KEIL MCB1700 evaluation board
- Manages memory using half-fit allocation algorithm with fixed memory blocks

Photography, travelling, baking, Tumblr, and piano