Richard Dang

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Skills Summary

- Proficient in object-oriented design with over two years of experience in Java
- Familiar in front-end web development with HTML, CSS, JavaScript, and JQuery through online courses
- Currently learning full stack technologies including Gulp.js, Browserify, Apache, MySQL, PHP, MVC Frameworks, Node.js, AngularJS, Express.js, Ruby on Rails, and ASP.NET
- Self-taught experience with Android Studio, C, C++, Python and version control with Git and SVN
- Highly adaptable and enthusiastic individual as demonstrated by keen interest to learn new technologies
- Strong analytical and problem solving skills developed through designing and debugging personal projects
- Excels in independent and cooperative work environments with experience in multi-site workplaces

Work Experience

Software Tester and Tools Developer, GEO Semiconductor Inc.

Jan. 2016 - Apr. 2016

- Validated overall firmware integrity of over 20 camera sensors/platforms through TestLink and JIRA
- Reduced testing time by over 50% through automation of testing procedures using host communication APIs
- Developed host tools in C and Python for internal testing and development with use of SVN and Crucible
- Designed regression test plans used to verify proper functionality of Image Signal Processing and Geometric Processing algorithms

Projects

Step Tracker, Pedometer & Compass Android App

May. 2016 - Jul. 2016

- Developed an Android application that utilizes sensors and finite state machines to track steps
- Implemented direction detection and location tracking using a map with predefined walls

Intelligent Car, Autonomous Maze Solving Robot

Feb. 2015 - Jun. 2015

- Designed self-navigating vehicle programmed using Arduino with the ability to traverse a maze
- Experience with electrical components such as H-Bridges, light dependent resistors and motors/gears

Tetristry, Chemistry Educational Software

Jan. 2014 – Jun. 2014

- Programmed Tetris-like chemistry education game using Java Swing with implementation of OOP concepts
- Learned importance of system structures in software design while working with UML class/activity diagrams

Extracurriculars & Interests

Driftwood Community Center

Jun. 2013 - Sept. 2015

Enhanced communication and leadership skills as a result of mentoring younger students and planning events

Interests - Android smartphones, reading, road cycling, weightlifting, tennis and ping pong

Education

University of Waterloo, Waterloo ON

2015 - Present

Candidate for Bachelor of Applied Science Degree in Computer Engineering