RICHARD DANG
2A Computer Engineering

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http://richarddang.ca

SKILLS SUMMARY

- Proficient in object-oriented design with over two years of experience in *Java*
- Familiar in front-end web development with *HTML, CSS and JavaScript* through online courses
- Currently learning full stack technologies through *Ruby on Rails*
- Self-taught experience with *Android Studio, C, C++, Python, Ruby, SQL,* and *Git* version control
- Highly adaptable individual as demonstrated by keen interest to learn new technologies
- Strong analytical and problem solving skills developed through designing and debugging projects

EXPERIENCE

Flipp Corp.
Sep. – Dec. 2016

Associate QA Analyst

- Set up continuous integration across multiple projects providing early risk detection, feedback loops, and quick deployments utilizing **Jenkins**
- Developed automated system checks that allowed for backend health monitoring across all platforms
- Created frontend regression suites with **Selenium** and test development tools using the **TestRail API**
- Automated performance testing to ensure baseline response time for internal A/B test framework using **JMeter**
- Improved knowledge of agile management by using scrum methodology tools in a fast-paced sprint-based work environment

GEO Semiconductor Inc.
Jan. – Apr. 2016

Software Test and Tools Developer

- 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
- Developed host tools for internal testing and development
- Designed regression test plans used to verify proper functionality of image and geometric processing

PROJECTS

Alexa Buddy
Nov. 2016

Amazon Echo Reddit Reader

- Created an **Alexa** app with Flask Ask framework that responds with top Reddit posts from any given subreddit while filtering out posts containing negative opinions
- Hackathon project won "Best Hack Against Online Harassment" at Electric City Hacks

Step Tracker
May – Jul. 2016

Pedometer & Compass Android App

- 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

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PROJECTS

Tetristry
Jan. – Jun. 2014

Chemistry Educational Software

•Programmed Tetris-like chemistry education game using Java Swing with OOP concepts

•Developed comprehensive understanding of system structures in software design through **UML**

EXTRACURRICULARS

Driftwood Community Center
Jun. 2013 – Sept. 2015

•Enhanced communication and leadership skills through mentoring younger students and planning events

Interests

•Android smartphones, reading, road cycling, weightlifting, tennis and ping pong

EDUCATION

University of Waterloo
2015 - Present

•Candidate for Bachelor of Applied Science Degree in Computer Engineering

•Received President's Scholarship for 90-95% entrance average

Relevant Courses

•Discrete Mathematics, Digital Circuits & Systems, Engineering Design & Embedded Systems, Digital Computers, Electronic Circuits, Algorithms & Data Structures, Linear Algebra