r22dang@uwaterloo.ca

EXPERIENCE

*Associate QA Analyst*

• 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 and MVC architecture with ***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 in learning new technologies

• Strong analytical and problem-solving skills developed through designing and debugging projects

SKILLS SUMMARY

http://richarddang.ca

+1 (647) 717-0339

Toronto, ON, Canada

2A Computer Engineering

RICHARD DANG

[Flipp](https://corp.flipp.com/)

•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

[*Pedometer & Compass Android App*](https://github.com/Richard-Dang/step-tracker)

[**Step Tracker**](https://github.com/Richard-Dang/step-tracker)

May – Jul. 2016

•Developed an **Android** application that utilizes device sensors and finite state machines to track steps

•Implemented direction detection and location tracking using a map with predefined walls

[*Amazon Echo Reddit Reader*](https://github.com/Richard-Dang/AlexaBuddy)

Nov. 2016

[**Alexa Buddy**](https://github.com/Richard-Dang/AlexaBuddy)

PROJECTS

•Created an **Alexa** app with Flask Ask framework that responds with top Reddit posts from any given subreddit while filtering out posts containing negative sentiment

•Hackathon project won “Best Hack Against Online Harassment” at Electric City Hacks

Jan. – Apr. 2016

[GEO Semiconductor Inc.](http://www.geosemi.com/)

*Software Test and Tools Developer*

Sep. – Dec. 2016

•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 front-end regression suites with **Selenium** and test development tools through integration of **TestRail API**

•Automated performance testing to ensure baseline response times 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

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2A Computer Engineering

RICHARD DANG

**Relevant Courses**

•Candidate for Bachelor of Applied Science Degree in Computer Engineering

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

**University of Waterloo**

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

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

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

EXTRACURRICULARS

[*Chemistry Educational Software*](https://github.com/Richard-Dang/tetristry-game)

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

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

**Interests**

Jun. 2013 – Sept. 2015

**Driftwood Community Center**

Jan. – Jun. 2014

2015 - Present

EDUCATION

PROJECTS

[**Tetristry**](https://github.com/Richard-Dang/tetristry-game)