

# IVAN WONG

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## TECHNICAL SKILLS

Java / Python / C / C++  
HTML / CSS / JavaScript  
RESTful API  
Agile / Scrum

Pandas / PySpark / NumPy / Hadoop  
NoSQL / MySQL  
Windows / MacOS / Linux  
Test Driven Development

Ruby on Rails / React / NodeJS / Meteor  
Git / GitHub / BitBucket / JIRA  
Socket Programming / Bash Scripting  
Test Automation

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## WORK EXPERIENCE

### Quality Assurance Automation Engineer Co-op

September 2016 – April 2017

Absolute Software Corporation - Vancouver, B.C

- Practiced **Agile** and **Scrum** in 2 week sprints with 10 other developers
- Created, maintained and ran automation test scripts in **Java**, **Selenium** and **TestNG** for functional and regression testing
- Designed, executed and analyzed performance testing scripts using **JMeter** and **LocustIO** to detect performance bottlenecks
- Built a Java web scraping tool for web traffic data to perform anomaly detection, association and predictive analysis
- Improved problem solving, debugging skills and **OOP** principles by working on their large code base, fixing its bugs and improving their exception handling for future debugging

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## COMPETITIONS AND PROJECTS

### Text Recognition Flashcard Maker App

December 2017 - Present

- Developing and designing a native **Android** app (Java) that detects and extracts the user's handwriting to create flashcards
- Integrating artificial intelligence engine, **TensorFlow**, for text classification and speech recognition

### Machine Learning Weather Forecast Prediction

September 2017 – December 2017

- Structured and cleaned quantitative weather data for data classification analysis to predict the weather forecast from an image using machine learning pipelines. Techniques: Naïve Bayes, Nearest Neighbors, Support Vector Machines and Decision Trees.
- Implemented **Python's Pandas**, **NumPy** and **Matplotlib** libraries to conduct data exploration and data visualization
- Involved data loading into the **Hadoop** Distributed File system to compute models quickly and efficiently
- Extracted the image pixel colors: Red, Yellow and Blue, using Python Sci-kit image to train the model

### Facebook Hacker Cup 2017 (facebook.com/hackercup)

January 2017

- Annual worldwide programming competition hosted by Facebook
- Developed problem solving skills through completing their programming puzzle

### COOPR&S (cooprs.herokuapp.com)

May 2016 – August 2016

- Developed a **Ruby on Rails** web application with three other classmates, that allow students to share their co-op experience and for companies to promote their co-op opportunities
- Architected the model-view-controller to respond to user inputs and perform interactions on data model objects
- Documented the user stories to communicate the requirements of a customer group using UML

### Various Web and Game Projects

January 2015 – August 2016

- Full stack development for a SFU Fantasy Sports Club website using Ruby on Rails and MySQL
- Created a text-based Python game called Diamond Treasure Hunter, that allows the user to move on a x by y grid using various rows, columns and diagonal mechanism, while keeping track of the user's progress in game

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## EDUCATION

Simon Fraser University - Burnaby, B.C

Bachelor of Science in Computer Science, Major GPA: 3.0

September 2013 – Present

(Expected graduation date: **December 2018**)