IVAN WONG // *Software Developer*

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TECHNICAL SKILLS

Java / Python / C / C++	Pandas / PySpark / NumPy / Hadoop	Ruby on Rails / React / NodeJS / Meteor
HTML / CSS / JavaScript	NoSQL / MySQL	Git / GitHub / BitBucket / JIRA
RESTful API	Windows / MacOS / Linux	Socket Programming / Bash Scripting
Mobile Development	Test Driven Development	Test Automation / Selenium

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, debugged and ran automation test scripts in **Java, Selenium** and **TestNG** for functional and regression testing
- Optimized various Java web traffic data scraping tool using hash map resulting in 1 hour decrease in the fetching process
- Designed, executed and analyzed performance testing scripts using **JMeter** and **LocustIO** to detect performance bottlenecks
- 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

COMPETITIONS AND PROJECTS   github.com/icwong

Text Recognition Flashcard Maker App – Java   *December 2017 - Present*

- Developing and designing a native **Android** app 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 – Python   *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 **Matpotlib** libraries to conduct data exploration and data visualization
- Involved data loading into the **Hadoop** Distributed File system to compute models, resulting in a ~3x data processing speed
- 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) – Ruby on Rails   *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 – Ruby on Rails + Python   *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

EDUCATION

Simon Fraser University - Burnaby, B.C   *September 2013 – December 2018 (Expected)*
Bachelor of Science in Computer Science, Major GPA: 3.0