Ryan Wang

University of Waterloo Software Engineering Candidate

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Skills and Qualifications:

Languages: Java, JavaScript, Scala, C++, Swift, C, HTML, CSS, SQL

Frameworks: ReactJS, Play Scala, Bootstrap, Spark, Hadoop

Tools: Git, Azkaban, Jenkins, ElasticSearch, Kibana, Eclipse, Xcode, Vim, gdb

Experience:

Software Engineering Intern – Paytm Labs   May – August 2016

- Independently built web applications from scratch to visualize big data using **ReactJS** and **Play Scala**
- Wrote **Spark** jobs to process and filter large datasets on **Hadoop** clusters
- Implemented a **RESTful** API to send and retrieve query results from **ElasticSearch**
- Designed **Azkaban** flows to automate data processing and used **Jenkins** for continuous integration

Projects:

Megaman X   June 2015

- Programmed a version of Megaman by Capcom using **Java**, **Eclipse IDE**, and **Adobe Photoshop**
- Used Object Oriented Programming to implement a character, random enemies, and terrain objects
- Implemented file IO and incorporated searching and sorting algorithms to display a score table

WATWatch   November 2015

- Worked in a group to develop a basic smartwatch using **C** and a microcontroller board
- Read input from buttons, switches, accelerometer, and temperature sensor to display data
- Implemented features such as a step and distance counter, timer, alarm, clock, and stopwatch

Musical Terms   May 2016

- Developed an iOS application using **Xcode** and **Swift** to display musical terms and their definitions
- Used various types of ViewControllers to design the UI and Actions to respond to user feedback
- Made use of the **MVC** design pattern to keep components modular and data encapsulated

Education:

University of Waterloo, Bachelor of Software Engineering   September 2015 – Present

Activities and Interests:

- Classical RCM ARCT pianist who also enjoys Broadway and Film music
- Light reading on computer hardware developments and technological advances
- Modern physics concepts including relativity, quantum mechanics, and string theory