

# Jacky Han

## about

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jackque 

## experience

Python  
Scala  
JavaScript  
(node.js, jQuery)  
CSS & HTML  
C++  
C#  
Java  
SQL

Hadoop  
Elastic  
Spark  
MySQL  
MongoDB  
Git  
Bash

## education

University of Waterloo,  
Software Engineering,  
Class of 2019

## interests

Avid badminton player

Favorite language?  
Probably English

Passion for games and  
game design

## work history

### Winter 2016 **Capital One Labs**

Kitchener, Ontario

*Data Science Developer*

- > Trained and implemented ML models for predicting credit card transaction sentiments through sci-kit learn package in Python
- > Created Python back-end to facilitate data transformation and management between front-end, SQL servers, and MongoDB
- > Implemented visualizations like calendars and spending charts using d3.js and jQuery for release to all Capital One customers
- > Deployed the entire visualization project using Docker on to AWS as well as to test suites

Summer  
2015

### **LoyaltyOne**

Toronto, Ontario

*Distributed Software Engineer*

- > Created distributed data analysis API using Apache Spark in Scala
- > Implemented API through RESTful services and created interfaces for client code
- > Maintained Hadoop clusters on AWS's EC2
- > Worked closely with clients and data analysts in a cross-disciplined team
- > Embraced Agile principles like automated testing, weekly presentations, and CI/CD through Jenkins

## projects

2016

### **Vectorial**

Game Project

*Physics-based puzzle game*

- > Created physics-based 2.5D puzzle game in Unity for desktop and mobile
- > Designed incrementally difficult puzzles with the player's skill in mind

2015

### **Myo Guitar**

Enghack 2015 People's Choice

*Virtual guitar, on the go.*

- > Worked on Android app that emulated a guitar
- > Integrated app as strings and Myo armband as strummer
- > Teaches user how to play songs through chords and progressions

2014

### **Pathfinder**

Software Engineering Project

*A pathfinding robot*

- > Programmed scribbler robot to navigate through a room while remembering and avoiding obstacles using Python
- > Implemented companion Android app to queue locations for the robot's destinations

2014

### **MyOwnDJ**

Enghack 2014

*Become a DJ, no equipment required*

- > Created a real-time DJ application controlled by a Myo armband
- > Features include playback, track changes, beats, and volume mixing