

# Jacky Han

## about

joejacky@gmail 

<http://jackyhan.xyz> 

(250) 893-0086 

jackque 

## experience

Python  
(Flask, Scikitlearn)

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

Piano expert since 5

Not the best artist but  
striving towards  
greatness

Passion for games and  
game design

## work history

Winter 2016 **Capital One Labs**

Kitchener, Ontario

*Data Science Developer*

- > Created end-to-end data visualization service for release to all Capital One customers
- > Utilized Python back-end to facilitate data transformation and management between front-end, SQL servers, and MongoDB
- > Designed visualizations like calendars and diagrams using d3.js and jQuery
- > Deployed projects on AWS with Docker
- > Trained and implemented ML models for predicting credit card transaction sentiments

Summer  
2015

**LoyaltyOne**

Toronto, Ontario

*Distributed Software Engineer*

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

## 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

*Make a robot pathfind across a room*

- > Programmed scribbler robot to navigate through a room while remembering and avoiding obstacles using Python
- > Integrated Android app to push destination locations to a remote server where they were queued and executed

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, volume mixing.