

Jacky Han

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Work Experience

LoyaltyOne, Inc.

May 2015 - August 2015

Developer Co-op

Toronto, ON

- Part of a cross-functional R&D team that researched and implemented new technologies for teams of 100+ analysts
- Worked on a distributed data analysis API using Apache Spark, at once processing over 95TB of warehouse data
- Experimented with multiple abstraction layers to implement the API including RESTful services and applications
- Utilised cloud computing through Amazon Web Service's EC2 and maintained a local Hadoop cluster for testing purposes
- Created end-to-end data streaming framework with Spark streaming
- Handled every step of an agile development cycle including weekly demos, testing, and CI/CD

Projects

EngHack 2015 People's Choice

February 2015

Myo Guitar

Waterloo, ON

- Android guitar app integrated with Myo armband input detection and key response
- Utilised multi-touch capabilities to simulate guitar fret inputs
- Inferred inputs as chords and chord progressions for simpler user experience

SE Project

November 2014

Scribbler PathFinder

Waterloo, ON

- Scribbler robot programmed to pathfind through a room while detecting, avoiding, and remembering obstacles in real time using Python scripts and robot sensor API's
- Integrated command queueing through a SQL server that recieved inputs from PHP scripts
- Inputs given through webapp as well as Android mobile app for a painless and always-available user experience

EngHack 2014

November 2014

MyOwnDJ

Waterloo, ON

- Utilised Myo API to control Javascript-based real-time DJ webapp
- Made use of Lua scripts to translate complex Myo armband inputs into tangible inputs

Technical Skills

Languages and Frameworks

- Demonstrated expertise with **Scala, Spark, Hadoop, JavaScript, C/C++, HTML/CSS**
- Comfortable with **Java, Node.js, Bootstrap, ELK Stack, Python, C#, Assembly**

Environments and Tools

- Familiar environments and tools include **Windows, UNIX, OS X, AWS, IntelliJ, Git, Android, Unity, Bash**

Interests and Extracurriculars

Leadership

- High school council president for two years, demonstrating excellent written and oral communication skills

Awards

- LoyaltyOne summer case competition winner, 2015
- University of Waterloo President's scholarship, 2014