Ryan Kim

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SKILLS

LANGUAGES
Python · Java · HTML · CSS · SQL
C · Swift · JavaScript · Racket

TECHNOLOGIES
Git · Bootstrap 3 · jQuery

TOOLS
PyCharm · IntelliJIDEA · Xcode
Sublime Text 3 · MySQL · Gimp
Terminal · Command Prompt

EDUCATION

UNIVERITY OF WATERLOO
BACHELOR OF COMPUTER SCIENCE
Jan 2016 – ongoing | Waterloo, Ontario
Cumulative GPA 3.96 / 4.0
Faculty GPA 3.97 / 4.0

UNIVERSITY OF CALGARY
BACHELOR OF SCIENCE IN ENGINEERING
Sept 2015 – Dec 2015 | Calgary, Alberta
Cumulative GPA 4.0 / 4.0

AWARDS

Dean's Entrance Scholarship
UNIVERSITY OF CALGARY
Awarded to just 30 of over 1000
undergraduate engineering students
for high academic performance

President's Scholarship of Distinction
UNIVERSITY OF WATERLOO
Awarded to first year students with an
exceptionally high entrance average

INTERESTS

Hiking the Rocky Mountains
Tinkering with Android/iOS
Listening to Indie Rock Music
Snowboarding in Fresh Snow
Attending Hackathons
Taking Scenic Photos

PROJECTS

PIXELRULER | VIRTUAL RULER
github.com/ryanfsdf/pixelruler
- Developed in **Java** to measure relative distances between points on a screen by calculating the difference in selected coordinates
- **Currently used by Civil Engineers** at **SNC-Lavalin** for approximating distances on structure design blueprints
- **Significantly increased workplace efficiency** by eliminating the need for printing each blueprint to measure out distances manually with a ruler

NEATBEATS | MUSIC ORGANIZER
github.com/ryanfsdf/neatbeats
- Created in **Python** to organize and rename audio files by metadata
- Capable of working with libraries of over **10000 files** and **50GB** of data
- Used the **Mutagen module API** to extract audio metadata
- Implemented **Regular Expressions** to standardize file names
- Saved more than **200 hours** needed to manually manipulate files

AUTOMOUSE | MOUSE RECORDER
github.com/ryanfsdf/automouse
- Designed in **Java** to record and play back mouse movements at an adjustable speed
- Incorporated the **JNativeHook external library** in order to leverage platform dependent native code for global mouse event capturing
- Included features for saving and loading by implementing **serialization**
- Effectively **eliminated** the need for manually repeating mouse actions

DONTSNOOZE | ALARM CLOCK
github.com/ryanfsdf/dontsnooze
- Written in **Python** to be submitted for **Terrible Hacks Hackathon 2016**
- Devised to wake people up at a desired time by manipulating system files in irreversible ways
- Successfully reduced wake-up time by **10 to 20 minutes** every day

RYAN-KIM.COM | PERSONAL WEBSITE
github.com/ryanfsdf/ryan-kim.com
- Responsive and informative website built utilizing **Bootstrap 3**, **hover.css**, **crossfade.js**, **typed.js**, **jQuery**, **Google Analytics API**, and other elements from **JavaScript/PHP**

EXPERIENCE

CANADA OLYMPIC PARK | JUNIOR SKI PATROL
Feb 2013 – Jan 2015 | Calgary, Alberta
- Worked in a team responding to **high stress** and **fast-paced** situations
- Used First-Aid to help assist over 5 people in **critical condition**

DAIRY QUEEN | CASHIER
June 2012 – Sept 2015 | Calgary, Alberta
- Quoted as **"hard working"** by the store owner and manager
- Demonstrated punctuality with **no late or missed shifts** in 3 years