

# KENNETH GALANG

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## EDUCATION

### Bachelor of Science - Honours Specialization in Computer Science

The University of Western Ontario: September 2015 - Present

Honours: Western Scholarship of Excellence

Societies: Hack Western, We Day, Canadian Asian International Student Association, Western Founders Network

## SUMMARY OF QUALIFICATIONS

**PROGRAMMING LANGUAGES:** Java (Very Experienced), C++ (Experienced), C (Prior Experience), Python (Prior Experience), Swift (Beginner)

**TOOLS:** Eclipse, Sublime, Grails, XCode, Flash, React, RStudio, MySQL, MS Office Suite, Photoshop, PostgreSQL, Android Studio

**LANGUAGES:** English, Kapampangan, French

- Participated in five hackathons that consist of continuous hours of coding and learning
- Experience in a teamwork environment and able to effectively communicate with other members to problem solve

## PROJECTS

### Calorie Pal (Java, Android Studio, IBM Watson, Nutritionix) - Western Hackathon Nov 2017

- Innovated a convenient calorie manager mobile application for daily nutrition intake
- User can take an image of a full meal or individual food to then get nutritional information returned out loud (calories are tracked until reset)
- Used IBM Watson's Visual Recognition API to recognize each individual foods in the photo, Nutritionix API to return calories and nutrition information, and Android Studio's text to speech API

### Vibe Analyzer (Java, Android Studio, IBM Watson) - Princeton Hackathon Nov 2017

- Created a mobile app to read the texts from a selected contact, and send the information to IBM Watson using the Natural Language Understanding API to analyze the emotions the contact feels towards the user, and ultimately, if the contact 'vibe' with you
- Learned a fair bit of Android Studio and how to work with IBM Watson's API's

### To-Do List (React, NodeJS) - Side Project Oct 2017

- Developed a simple web application that allows a user to add tasks, check them when completed, and delete the task off the page when needed
- Made with React frameworks, Javascript, CSS, and Node Package Manager to compile

### Internet of Things (C++, Web Toolkit) - Agile Project Management Oct 2017 - Current

- A web client that acts as a home automation system that allows remote or automated control over lighting such as changing patterns, brightness, and scheduling times
- Using Web Toolkit framework; sends API requests to the server in order to manipulate the Hue lights within the household

### Eventile (Grails, MySQL, React, Bootstrap) - Agile Project Management Jan 2017 - Apr 2017

- A web application that allows users to filter and search for events, create their own profile and/or event
- Incorporates a social media aspect by implementing features such as commenting, rating, and RSVP'ing to an event
- Implemented using Grails framework, Bootstrap, React, MySQL, and multiple API's such as Google Maps, Eventbrite, and Ticketmaster

### Space Box Dodger Game (Java, JFrame) - Side Project Summer 2017

- Play as a box dodging enemies — the levels go up as the game goes on and spawns enemies at a random speed and direction on each level
- Applied synchronization and threading methods for the boxes and used Java's API's for the client and keyboard control

### Actions to Commands (Python, OpenCV) - DeltaHacks Hackathon Jan 2017

- Created a program that recognizes hand gestures picks up voice commands to manipulate various programs such as Microsoft PowerPoint
- Made with OpenCV API and speech recognition function

## EMPLOYMENT

### Aryzta LLC, Summer Student General Labourer, Brantford, Ontario Summer 2016, Summer 2017

- Operated production for the manufacturer and completed hourly quality assurance checks for products
- Paid attention to machinery and quickly fixed any malfunctions in a safe manner

## ACTIVITIES

### Beatbox Canadian Championships, Beatboxer Nov 2014 - Nov 2016

- Young finalist and placed top 5 for three years in a row
- Performed in front of a crowd to raise money for charity