

# Ike (Eek Seung) Lee

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■ B.A. Sc. Computer Engineering 2021 at University of Waterloo

## SKILLS

### Languages

- Python
- Scala
- Java
- C++

### Frameworks/Libraries

- Facebook Graph API
- Docker
- GraphQL
- SciPy/NumPy
- Git
- Android
- Rest/HTTP
- Kubernetes
- Tensorflow/Keras
- MongoDB
- Scala Play/SBT
- Mockito
- Google Maps API
- FFmpeg

### Common Tools

- Atlassian Confluence/Jira
- Sumologic
- Postman
- Agile Product Development

### Interests

- Deep Learning/AI
- Digital Audio Analysis
- Starcraft Bot making
- Tech related journalism
- Music production

## WORK HISTORY

### Hootsuite, Vancouver, BC

Sept - Dec 2017

Backend Developer

- + Designed a Scala micro service which utilizes GraphQL to retrieve over 100,000 Facebook private messages a day sent to multiple enterprise customers
- + Set up Sangria GraphQL as the gateway between frontend and Hootsuite's numerous backend microservices and databases
- + Created a REST endpoint to fetch all Facebook messages by their ids - this endpoint facilitates querying of MongoDB, transforming data into custom defined models and returning the data
- + Created a zero state page for Hootsuite's new feature using React and Javascript
- + Wrote unit tests for microservices using Mockito
- + Integrated external API for customer satisfaction surveys in Hootsuite's PHP dashboard using PHP, MySQL and Guzzle

### Rave, Kitchener, ON

Jan - Apr 2017

Audio Engineer/Software Developer

- + Designed a Python script that analyzes and mashes two songs together
- + Rewrote Beat Detection function to reduce runtime; reduced up to 40 seconds of runtime on a function, which uses neural network to analyze chroma vectors of the file
- + Implemented an algorithm to find key of the song using machine learning concepts and chroma analysis
- + Implemented an equalizer that adds musical dynamics to the mashups

## PROJECT

### Hangr

Javascript, IBM Watson Machine Vision API

Web application designed to utilize machine vision to analyze your closet, algorithmically pick out the best combination of clothes.

### Flick

Android Studio, Facebook API, Google Maps API

Android application designed to link people together that want to engage in different activities, a Scala backend service is being implemented

### Deep Learning A-Z

Python, Tensorflow, Keras, scikit-learn, Spyder

Took a course on Deep Learning online, learned the basics of machine learning and how to write a simple artificial neural network and convolutional neural network, wrote a churn model and a cat/dog determiner

### Hootsuite Inspire

Node.js, Facebook API, React

App to help content creators come up with fresh engaging content, searches Facebook for other businesses in similar fields and displays their content

### CatSecure

HTML, Javascript, Python, C++

Google Chrome extension designed to create RSA encrypted passwords, store public and private keys based on website and provide the passwords when needed