

# William Gill

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## Relevant Experience

### Lead Android Developer **Katla Labs (Summer 2016)**

- Co-Developed personal driving assistant app, SideKick
- Built the entire navigation ecosystem using Google APIs
- Collaborated to integrate modules built by others
- Visit [sidekick-app.com](http://sidekick-app.com) for details

### Programming Lead **Team 610 (2013-2016)**

- Developed Android app to scout FIRST Robotics teams
- Stored statistics using FireBase database
- Produced projections and rankings based on statistics
- Researched and implemented comprehensive algorithms to make strategic decisions during competitions
- Responsible for teaching Android development to others

### Research Assistant **Prof. Lee (Fall 2015)**

- Purpose: create encryption keys using images of space
- Wrote Java program that reads the RGB values from a picture and converts it to an Excel Spreadsheet
- Developed a program that converts the RGB values from the Spreadsheet back to an image

### Innovation Engineer **Via Rail Canada (Summer 2017)**

- Worked start to finish as Full-Stack Developer on Rail Request
  - Created API in NodeJS
  - Wrote database in SQL
  - Front-End development in React
- Built a dashboard for financial department in PowerBI

## Projects

### Barz **Fall 2016**

- Created a lyrics analysis engine that parses metrolyrics to extract impressive lyrics
- Factored in many parameters including rhyme density and alliterations
- **APIs:** Google's GSON, Datamuse, JSoup

### Locator **Spring 2015**

- Allows users to find friends by dropping pins on a map
- All users have their coordinates stored in FireBase database
- **APIs:** FireBase, Google Maps

## Skills

### Web Development

#### React

Rail Request

#### NodeJS

RR API

Rail Doctor

### Languages

#### Java

Android Projects

Robotics

#### C++ & C

Computing Contests

RobotC

CS 136

#### Git

Robotics

Katla Labs

### Databases/Analytics

#### PowerBI & DAX

Financial Dashboard

#### FireBase

Android Projects

#### SQL

RR API

## Leadership

### Team 610 (2016)

Programming Lead

### Dignity 4 All Charity (2016)

Editor-in-Chief

### Programming Club (2015)

Co-Founder

## Education

### University of Waterloo

2A Term

Graduating 2021

Computer Science

### Crescent School

Graduated 2016