

# Erick Leon

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## Skills

**Languages:** Python, Go, Kotlin, Java, TypeScript/JavaScript, C/C++

**Technologies:** Git, ReactiveX, Protobufs, gRPC, Flask, Node.js, React, Vue.js, Android, AWS, Firebase, MySQL



## Experience

### Kik Interactive

Backend Developer Intern

Waterloo, ON

May 2019 - August 2019

- Architected a new gRPC microservice for chat assets in Go using DynamoDB, S3, and Cloudfront with support for digital asset ownership resulting in better maintainability and a **59%** reduction in response time
- Developed Java microservices for Kin Marketplace allowing users to fetch marketplace listings and submit transactions to the blockchain providing better feature support for Kik's **250K+** Monthly Active Kin Users
- Designed internal RPCs for transaction history using Protobufs allowing services to save transactions records

### Secret Mission Software

Software Developer Intern

Toronto, ON

September 2018 - December 2018

- Implemented chats and notifications for an Android social app with MVP pattern using XMPP, RxJava, and Dagger
- Improved chat loading by **35%** by reducing page size and making concurrent requests for users and XMPP archive
- Used Protobufs to create gRPC requests for implementing user searches, follow requests, and notification updates
- Created a personal finance app using React and Firebase to display portfolio performance and stock allocation

### Sensors & Software

Software Developer Intern

Mississauga, ON

January 2018 - April 2018

- Developed a Web UI for controlling networked ground penetrating radar systems using Vue.js and CherryPy
- Created a software analytics tool to observe system usage information in radar models using Pandas and Matplotlib



## Projects

### Auto Gardener (Python, JavaScript, Arduino, Flask, Socket.io, React, Firebase)

September 2018

- Built an IoT gardener that enables users to remotely monitor and water plants through a dashboard built in React
- Implemented two-way serial communication between an Arduino and a Raspberry Pi, making use of concurrency
- Wrote an event-driven data handler in Python that scheduled device commands and updated real-time sensor data
- Deployed a message broker API using Flask and Socket.io to sync data between the device and the dashboard

### Playmoji (JavaScript, React, Flask, MongoDB, Spotify API)

May 2018

- Built a Firebase web app that creates a Spotify playlist for users based on a set of emoji characters as input
- Created React page combining data from Spotify API wrapper and custom emoji to emotion value mappings
- Added search feature to choose favorite songs for the Spotify API to factor those song-styles into playlist



## Education

### University of Waterloo

Candidate for BAsC Computer Engineering

Waterloo, ON

September 2016 - Present



## Interests & Activities

- Coffee, Cooking, Speed cubing, Nerf guns, Investing, Swimming
- Engineering Orientation Week Leader