

# Erick Leon

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## Skills

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

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



## Experience

### Kik Interactive

Backend Developer Intern

Waterloo, ON

May 2019 - August 2019

- Implemented an improved Kin Marketplace services, providing better feature support for Kik's 250K+ Kin MAU
- Designed a new chat assets gRPC service in Go using Dynamodb, S3 and Cloudfront resulting in a faster and more robust implementation with support for digital asset ownership using Kin
- Developed Java microservice allowing users to fetch marketplace listings and submit transactions on the blockchain

### Secret Mission Software

Software Developer Intern

Toronto, ON

September 2018 - December 2018

- Implemented chats and notifications for 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 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
- Refactored Python application on legacy radar models for compatibility with updated OS data buffers



## 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 Arduino and Raspberry Pi, making use of concurrency
- Wrote an event-driven data handler for the gardener that managed incoming and outgoing data in Python
- Deployed a message broker API using Flask and Socket.io to send data to the device from the dashboard

### Playmoji (JavaScript, React, Flask, MongoDB, Spotify API) [🔗](#)

May 2018

- Built a Firebase web app that creates a Spotify playlist based on given emoji strings for users
- 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 BAsC Computer Engineering

Waterloo, ON

September 2016 - Present



## Interests & Activities

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