Erick Leon

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⚙ Skills

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

Technologies: Git, ReactiveX, Protobufs, gRPC, Flask, Spring, React, Android, AWS, Firebase, MySQL, Postgres

💼 Experience

Ripple   *San Francisco, CA*
Software Engineering Intern   *January 2020 - April 2020*
- Developed distributed payment services in Java and Spring performing **150K+** monthly transactions on RippleNet
- Maintained and supported MQ notification feature allowing customers to update payment states in real time
- Created RabbitMQ testing infrastructure using Python enabling creation of RippleNet topologies and payment load

Kik Interactive   *Waterloo, ON*
Software Developer Intern   *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 transaction records

Secret Mission Software   *Toronto, ON*
Software Developer Intern   *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   *Mississauga, ON*
Software Developer Intern   *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
- Deployed a data handler service using Flask and Socket.io to sync real-time sensor data to the dashboard
- Implemented two-way serial communication between an Arduino and a Raspberry Pi, making use of concurrency

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   *Waterloo, ON*
Candidate for BASc Computer Engineering   *September 2016 - Present*