Erick Leon

eeleon@edu.uwaterloo.ca | (905) 783 - 2276 | github.com/ericklikan | linkedin.com/in/erick-leon

⚙ Skills

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

Technologies: Git, Flask, Node.js, React, Vue.js, Android, Firebase, Heroku, AWS, Bluemix

💼 Experience

Secret Mission Software   *Toronto, ON*
Software Developer Intern   *September 2018 – December 2018*

- Implemented chats and notifications for ShopHush's Android makeup community app with Model-View-Presenter architecture using ReactiveX, Dagger, and Epoxy
- Leveraged Extensible Messaging and Presence Protocol (XMPP) to build instant messaging feature
- 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 Inc.   *Mississauga, ON*
Software Developer Intern   *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

Hangr (JavaScript, Bluemix, Node-RED, Watson API, CloudantDB)   *April 2017*

- Created a virtual smart closet that recommends outfits based on a user rating system, deployed on Bluemix
- Used Watson's Visual Recognition API to identify and store clothing styles into CloudantDB
- Implemented a Like/Dislike feature that allows users to rate and update clothing combinations

🎓 Education

University of Waterloo   *Waterloo, ON*
Candidate for BASc Computer Engineering   *September 2016 – Present*

♖ Interests & Activities

- Cooking, PC building, speed cubing, nerf guns, investing, swimming
- Engineering Orientation Week Leader