

Karen Kaweng Sin

Portfolio

(415) 290-0173 | San Francisco | [Github](#) | [LinkedIn](#) | kkwsin@gmail.com

EDUCATION

Bloc.io *Web Development/Frontend Engineering*

2018 - 2019

UC Davis *Bachelors in Animal Science*

2012 - 2016

SKILLS

- ReactJS, JSX, Javascript, CSS/Bootstrap, HTML5
- SQL, PostgreSQL
- Git
- Node.js
- Firebase, ExpressJS

SELECT SIDE PROJECTS

Meeseeks Bot (Facebook Hackathon)

November 2019 (2 day hackathon)

A messenger bot implemented with **facebook messenger API** that is designed to respond with automated voice and text message responses. The project utilized **webhooks** for token authentication.

Bloccit (via Express/Node.js)

March 2019 - April 2019

Built an online content aggregator and discussion community website with **ExpressJS** and utilizes the **Model-View-Controller Pattern (MVC)**. Used **ExpressJS middleware** to perform authentication which allows users to sign up, sign in and create topics, posts, comments and votes amongst others.

Chat-ty (via React)

February 2019 - March 2019

Built an instant messaging system with **Firebase** (BaaS) as the backend. Chat-ty allows users to authenticate via Google sign-in to send and receive messages in real time.

HTML5 Music Player (via React)

November 2018 - December 2018

A HTML5 music player built from the ground up using **React** and **React Router** to create a Single-Page Application to handle client-side page transitions.

WORK EXPERIENCE

Apple.Inc *GIS Data Analyst*

May 2018 – Present

- Enhanced **data accuracy** on Apple Maps by leading the **data aggregation** across multiple US map data sources: satellite imagery, apple street view photos, and user location data.
- Deployed new map features to identify potential map inaccuracies:
 - Road quality detection
 - Street sign changes
 - Road closures and alterations
- Built analytics dashboards with **PostgreSQL**, **ArcGIS**, and **QGIS** to report on traffic and road alterations via large datasets
- Worked closely with designers on new map features which included planning out workflows on the delivery of the features to **maximize discoverability**, **interface behaviors**, and how information is being **navigated and displayed**.

UCSF - Psychiatry Dept *Research Associate II*

July 2017 – April 2018

- Discovered correlation between high quantities of Cortical Inhibitory Neurons and High Rates of Autism Spectrum Disorder (ASD).
- Experimented on the expression of genes associated with Autism Spectrum Disorder, chromatin regulation of ASD gene regulatory elements across development.

Research results are being used as a major part of understanding the impact of mutations in other genes and provides major contributions to further research in this field.