# **BENJAMIN YOUNG-MIN KIM**

# **EXPERIENCE**

## THE SWIM APP - Software Engineering Intern - Fullstack

AUG 2020 - PRESENT

- Fullstack intern for Swim, a mobile first social network with an emphasis on locality
- Technical owner of Firebase integration (realtime chat, push notifications), content feeds, and user onboarding/interaction
- Designed core systems in the frontend Flutter application for user navigation, authentication, and state management using Provider. Coded fullstack features (Flutter -> Laravel) for content feeds, user interaction (comments, likes, impressions)
- Containerized the backend web service with Docker for production and local deployment

### **SODA LABS** - Software Engineering Intern - Android

MAY - SEP 2019

- Developed for an enterprise use, collaborative touch TV (Kotlin, Java, Gradle, Bash, Android)
- Implemented iOS Airplay compatibility for screen broadcasting in our core Launcher app
- Reduced technical debt by updating the CircleCI pipeline to include code coverage checks and by writing integration tests for core behaviors. Used pidcat and adb as primary debugging tools

## **DIVISION OF DATA SCIENCE, UC BERKELEY - Research Management Intern**

2018

- Provided technical consultation for 100+ undergraduate researchers, cultivated research partnerships, and increased our research pool by 30% for the Discovery Research Program
- Taught and developed a research course for students from underrepresented backgrounds. I hosted guest speakers from industry/academia and taught workshops for pandas/numpy/sklearn/r/tf/keras

## **PROJECTS**

CIBIC JAN - JULY 2020

- Designed and created a social platform for civic engagement and political discourse
- Provided leadership for a remote volunteer team of 14. Cocreated the PRD and v1 wireframe in Figma
- Implemented a cross platform mobile app in Flutter/Dart using Redux state management
- Designed search, content feed systems, user/hash tags, and content reaction system for backend (Node/Nest/TypeScript/MongoDB/PostgreSQL)
- Configured deployment via Docker/AWS and created the landing page (HTML/CSS/JS)
- Established processes for version control, e2e testing, and internal documentation

#### **THANKTANK**

PRESENT

- A social platform that allows users to express gratitude
- Implemented in 48 hours a frontend mobile application with content feeds, post screens, and real time chat (Firebase) in Flutter/Dart; implemented the backend using Django/Docker/AWS

#### **CO-CREATECONTAINERS.COM**

PRESENT

- My neighbors build container homes. Together we are building an IOT network for smart, tiny homes
- ESP8266 Arduino (C++) pings the backend (Django/Docker/AWS) which serves mobile (React Native) and web (React)
- Sensors currently record water telemetry (gallons/min, total gallons, pressure)

### **SELF DRIVING CAR SIMULATOR**

- Convolutional neural network made in Python/Keras (image data -> steering angle)
- Designed a data pipeline to automate data generation and pre-processing
- The autonomous car can perpetually drive through a track in the simulator engine

## **EDUCATION**

### **42 SILICON VALLEY**

2020 - PRESENT

A peer to peer, distributed school for computer programming. Curriculum is self/peer taught, project based, based in C, and Socratic