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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

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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

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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