

Kehan Wang

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Software engineer skilled in full-stack and mobile development.
Looking for a software engineer internship.

EDUCATION

Bachelor of Arts, Computer Science

University of California, Berkeley
Junior, Spring 2021
Dean's Honors List (Top 10%)
GPA: 3.88

EXPERIENCE

Mobile Software Engineer

Brilliant Home Technology

San Mateo, CA

May 2019 - Aug 2019

- Brilliant Smart Home control panel and mobile app connect all smart home devices together and let users control everything from one place.
- Developed new features on the mobile app, such as Alexa Skills compatibility, user preferences persistence, smart shades support, and user home devices administration.
- Implemented all features on both Android and iOS (Kotlin and Swift). Used MVVM architecture, ReactiveX programming, and Swinject/Dagger.

Software Engineer

California PATH

Berkeley, CA

Jun 2018 - May 2019

- Developed *PathTransit*, a public transit app that supports ticket purchasing and bus-user location matching for transit services, e.g. BART, AC Transit.
- Backend Flask APIs scrape real-time transit info, provide stops and lines info to the frontend, and match users to their buses based on their real-time locations. (SQL)
- Frontend displays bus stops, lines, and their ETA. Users can purchase tickets, match with buses, and receive mileage awards. (React-Native)

Backend Software Developer

Simpatica Medicine, Inc

Berkeley, CA

Feb 2018 - May 2018

- Developed a scalable backend for increasing data needs from machine learning on how different AIDS patients react to different medical treatments.
- Implemented a cluster of Docker containers to handle large uploads so that data can be compressed and provisioned using Airflow.

Lab Assistant

UC Berkeley

Berkeley, CA

Jan 2018 - May 2019

- Lab assisted EE16A/B: Designing Information Devices & Systems I/II.
- Helped students with lab work such as debugging breadboard circuits and understanding material.

HONORS and PROJECTS

1st Place Winner of Cal Hacks 5.0

<https://navii.io/>

- 1st place in Cal Hacks 5.0, a 36-hour hackathon with ~2000 hackers, ~250 teams from all over the world.
- *Navii* is an AR mobile app for indoor navigation. It generates a path to the user's destination in camera and gives the highest indoor navigation accuracy.
- *Navii* is currently in Berkeley SKYDECK Hot Desk.

GuavaBot

<https://guavabot.cs170.org/>

- Implemented an efficient algorithm to find lost GuavaBots in a known list of possible areas and guide them to a certain place (home).
- Used multiplicative weights update method and approximated Steiner tree.
- Class project for CS 170: Efficient Algorithms and Intractable Problems. 7th place in ~900 students.

LEADERSHIP

President of the Student Union

Oct 2015 - Jun 2016

- Organized school-wide student activities (Movie Dubbing Competition, Food Festival, Fun Sports Meeting, Halloween Party, Singing Competition...)
- Conveyed students' opinions to school administration and argue for changes in school policies to make the campus a better place. (No School Uniform Day, School-wide Wi-Fi...)

PROGRAMMING LANGUAGES

Python, Java, Kotlin, Swift, React-Native, C/C++, GO, JavaScript, SQL, HTML