

# Kei Asakawa

4th Year Computer Science Major

[keiasakawa4@gmail.com](mailto:keiasakawa4@gmail.com)

310-490-4839

Github: <https://github.com/keiasakawa>

## EXPERIENCE

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### Commit The Change — *Developer*

October 2021 - Present

- Formed schemas to track information and data for a MongoDB database using MEAN stack
- Developed front end components for a user interface using React and Chakra UI
- Cooperated and partnered with new non-profit organizations on a yearly basis

## RELEVANT PROJECTS

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### Movie Database Web Application

- Developed a full stack website built from scratch that displays a catalog of 1000s of movies by utilizing AWS services to host web server
- Implemented a large frontend utilizing Javascript, JQuery, and Ajax
- Ran MySQL services in under 500ms to retrieve information from database

### Weight Loss App

- Built a full-stack mobile application that allows users to enter in health input and incorporated information from the HealthKit API to produce recommended meals
- Utilized Ionic to develop frontend components and PostgreSQL for storing information from web scraped meals and user information
- Calculated top 100 ideal meals using cosine similarity

### Checkers AI

- Utilized a Monte-Carlo Tree to search for the best move for a checkers game
- Implemented multithreading to use up 100% of memory and RAM usage
- Competed against other students AI and placed in the top 7%

### Web Crawler and Search Engine

- Crawled and gathered information of websites by generating IP address from URLs with an average of 8-10 seconds
- Minimalized the query response time to under 2 seconds
- Detected several web crawler traps

## EDUCATION

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### University of California, Irvine

September 2019 - Present

- 3.685 GPA
- Concentration and Specialization in Information
- Classes in Data Structure & Algorithms, Machine Learning/Data Mining, Next Generation Search Systems, Information Retrieval, Computer Vision

## SKILLS

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**Programming:** Python, C++, Java, SQL, HTML/CSS, Git

**Interests:** Web Development, Artificial Intelligence