

# Sophia Cheung

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## TECHNICAL SKILLS

- **Proficient:** Ruby on Rails, JavaScript, React.js, Redux, Node.js, Express.js, PostgreSQL, MongoDB
- **Exposure:** Python, Flask, Heroku, AWS, jQuery, HTML5, CSS3, Testing (RSpec, Capybara, Jasmine), Git

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## EDUCATION

**University of California, San Diego** - BS Physiology & Neuroscience

2014 - 2018

**AppAcademy** - 1000-hour full-stack web development intensive course with <3% acceptance rate

2019

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## PROJECTS

**Kitchen Fable** | (*React, Redux, Rails, Google Maps API, React Day Picker, AWS S3*)

[live](#) | [github](#)

*Full-featured single page application inspired by OpenTable, allowing users to browse and book restaurant reservations.*

- Constructed flexible search feature using JavaScript promises to fetch data asynchronously from result of custom SQL query to Rails backend, and ensured persistence of search results upon refreshing webpage by storing query strings in route prop of React component.
- Integrated React Day Picker API into reservation form with conditional logic, thus restricting date inputs to only future dates.
- Effectively reduced server load and promoted graceful scalability of application by storing dynamic images in cloud using AWS S3.

**Turn It Down** | (*JavaScript, CSS3, Web Audio API, HTML5 Canvas*)

[live](#) | [github](#)

*Challenging retro-style vertical platformer with a fun music rhythm game twist.*

- Implemented movement-based animations with use of asynchronous JavaScript and vector math calculations.
- Developed algorithm for collision detection of user-controlled sprite character with moving platforms, and integrated keydownkeyup event listeners to predict future player direction and movement.
- Built dynamic tile mapping system which randomly assigns 2 of 3 prototypal tiles to each leveled tile line, and ensures top-level tiles are repainted to DOM as bottom-level tiles leave, resulting in more realistic gaming experience and higher player retention.
- Introduced game state changes by applying OOP techniques and strategizing React component state, which significantly DRYed up frontend code.

**Cravings** | (*MongoDB, Express.js, React, Redux, Node.js, React-Leaflet, Yelp API*)

[live](#) | [github](#)

*Convenient web application returning a list of nearby restaurants based on the user's moods or feelings.*

- Utilized Yelp Fusion API to allow user to search over 200 restaurants in seeding MongoDB database and incorporated React-Leaflet library to dynamically present restaurant locations.
- Implemented restaurant search by strategizing query string to encompass user-inputted criteria using custom Axios calls, reducing response payload size and returning pre-filtered restaurant results to frontend components.
- Collaborated effectively with team of engineers via GitHub platform from managing pull requests to resolving merge conflicts.

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## PROFESSIONAL EXPERIENCE

**Technical Admissions Specialist** | App Academy

August 2019 - Present

- Conducted technical interviews of coding bootcamp applicants, assessed algorithmic aptitude in Javascript, Ruby, Python, and Java, and provided constructive feedback.
- Conducted behavioral interviews of coding bootcamp applicants, evaluated their ability to perform at a high level under stressful conditions.

**Clinical Assistant/Private Insurance Coordinator** | Pain Care of San Diego

May 2017 - March 2018

- Demonstrated proficiency in utilizing electronic medical record (EMR) system to organize sensitive patient information in compliance with HIPAA regulations.
- Navigated through three-factor authentication system to assist providers in electronic prescribing of 20+ types of medications, including schedule II, III and IV narcotics.
- Assisted in procedures by maneuvering C-Arm imaging device and controlling radiofrequency ablation generator.