

# PATRICK CHOI

650-863-6729 ptrckchoi@gmail.com [Portfolio](#) [LinkedIn](#) [Github](#) SF, CA

**Languages:** Typescript, Javascript, Python, Ruby, SQL, HTML/CSS

**Technologies:** React, Rails, Redux, Next.js, trpc, Ava, TailwindCSS, Docker

## PROJECTS:

**Congress Watcher** *Next.js, Typescript, TailwindCSS*

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

*Web application to streamline access to news concerning the US Congress*

- Leveraged the server-side rendering capabilities of Next.js to efficiently fetch and present real-time data.
- Integrated with RESTful third-party APIs like ProPublica and Wikipedia using Next.js's built-in API utilities.
- Designed and styled the application with a minimalist interface using TailwindCSS.

**Tumble** *Ruby on Rails, React, AWS S3, Redux*

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

*Developed a full-featured Tumblr clone using Ruby on Rails and React Redux*

- Enacted React Hooks and Redux for global state management and dynamic rendering of likes, comments, and posts without refresh
- Features full CRUD functionality on posts and comments as well as partial CRUD for likes and user profiles
- Utilized AWS S3 for the purpose of image storage, enabling enhanced scalability and security measures for sensitive image data

**Bagon Adventures** *Vanilla JS, HTML Canvas*

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

*Browser-based game made through Vanilla JS and HTML Canvas.*

- Implemented algorithms such as collision detection with an array of boundaries and movement based on keyboard inputs event listeners
- Formulated animation techniques by writing optimized code that efficiently traversed sprite sheets
- Designed and implemented a highly optimized core gameplay loop to initiate events in a DRY manner, incorporating DOM manipulation techniques to dynamically update elements based on said events

## EXPERIENCE:

**Software Engineer** *Typescript, React, Next.js, Ava, Docker, trpc*

[github](#)

*Code for America, SF Brigade*

May 2023 - Current

- Volunteered as a Software Engineer on Project Compass, an open-source web application to aid SF Unified School District in tracking IEPs for students with disabilities.
- Performed rigorous back-end testing with Ava, ensuring the functionality, reliability, and performance of the developed solutions
- Engaged in the project's issue management on GitHub, prioritizing tasks and tracking progress while fostering team collaboration and clear communication among different teams involved

**Undergraduate Research Assistant**

*UC Berkeley Agricultural and Resource Economics (ARE) Department*

Jan 2022 - May 2022

- Assisted graduate researcher with editing R-script used for survey data collection
- Regularly monitored and cleaned incoming data for irregularities and communicated findings with research team

## EDUCATION:

University of California, Berkeley - *BS Environmental Econ and Policy, 2020-2022*

App Academy - *16 week fullstack software development course, Oct 2022 -Jan 2023*