PATRICK CHOI

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

Technologies: React, Rails, Redux, trpc, Ava

PROJECTS:

Tumble *Ruby on Rails, React, AWS S3, Redux, HTML, CSS*   [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, HTML, CSS*   [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

Singed *MERN, HTML, CSS*   [live](#) | [github](#)
Group project with 3 other contributors for a web application that recommends users dishes and restaurants using the MERN stack
- Led the design and aesthetic direction of the website, while writing 80% of its CSS and managing frontend components to optimize the UI/UX
- Regularly used Git and Github to collaborate efficiently and minimize merge conflicts

EXPERIENCE:

Software Engineer *Typescript, React, Next.js, Ava*   [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*