

Patrick Chao - Software Developer - U.S. Citizen - San Francisco

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Languages

Ruby, JavaScript, SQL, HTML, CSS, Python, Go

Frameworks/Technologies

Ruby on Rails, React/Redux, PostgreSQL, Git, AWS, Selenium, Redis, RSpec, Jest, Enzyme, Docker

Projects

goodPlays

[Github](#) | Live: <https://www.goodplays.gg>

Goodreads for video games, a responsively designed single page application built on React/Redux and Rails.

- Wrote custom Python Selenium scripts paired with BeautifulSoup4 to extract information about hundreds of games from Twitch, Amazon, and Metacritic to seed database.
- Created custom validation algorithms for lifecycle callbacks in Rails models to ensure that collected game's are present in a user's default collections, and prevent users from reviewing games they have not collected.
- Used Twitch API to embed live streams for the top 5 streamers by viewer count for each game on the site.
- Increased data rendering speed by over 1000% by adding caching with Redis and optimizing N+1 SQL queries.
- Added tests (RSpec, Jest, and Enzyme) to ensure that code behavior remains consistent after refactoring.

Pretty PbP

[Github](#) | Demo: <https://goo.gl/Ppt63V>

NBA play-by-play recap app built on vanilla JavaScript client and Express.js backend.

- Implemented custom Javascript function that uses closures and ES6 promises to modify setTimeout and present play-by-play feed with configurable playback speed.
- Used Selenium and WebdriverJS to create a custom API endpoint by web scraping URLs from NBA website.
- Designed frontend using vanilla JavaScript combined with CSS3 to produce a responsive user interface.

Xperience

[Github](#) | Live: <https://goo.gl/2bLi4u>

Yelp for experiences - find date ideas, trip plans, and more! Built on React/Redux and Go, deployed with Docker.

- Wrote Go backend and React components for creating experiences and associated activities, storing activities as a JSON object in the experience Postgres relation to balance flexibility and read/write performance.
- Implemented AWS S3 integration for Go backend to save user submitted photos and serve them back to the site, adding a level of customization for their experiences.
- Built authentication flow with Facebook's OAuth and Graph API to reduce sign up/log in friction for users.

Experience

Assistant Paralegal/Legal Writer

Fragomen Worldwide

July 2015 - July 2017

- Produced 250 legal petitions in support of employees at Fortune 5 companies seeking extraordinary ability visas by communicating directly with stakeholders each day via phone and email.
- Maintained a 100% approval rate for extraordinary-ability visa petitions compared to 60% industry standard.
- Researched highly technical topics such as machine learning, cybersecurity, and systems architecture by reading academic journal articles and online resources to produce 30 to 40 pages of writing for each case.

Education

App Academy (Winter 2017/2018)

Immersive software development course with focus on full-stack web development.

Udacity CS253 (Fall 2017)

Online introduction to web development course taught by Steve Huffman, CEO of Reddit.

University of California @ Berkeley (Spring 2015)

BA - Economics, 3.9 Major GPA

Curriculum Highlights - *Object Oriented Programming* (Summer 2013), *Data Structures and Algorithms*. (Spring 2015)

Distinction in General Scholarship Honors (Fall 2011, 2014)