

SKILLS: JavaScript, Ruby, Rails, React, Redux, GraphQL, SQL, HTML, CSS, MongoDB, PostgreSQL

PROJECTS:

Yosha *JavaScript, Canvas API, HTML5, CSS*

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

Browser game inspired by platformers such as the Mario franchise and action shooting games like Contra.

- Implemented a tile-based level creation system to parse characters in a grid string and determine the initial placement of walls, enemies, and player on each level and allow intuitive sizing for character models based on a standardized tile size.
- Separated models across various classes and utilized inheritance using strong object oriented programming concepts to simplify implementation of future features such as new enemies, win conditions and terrain.

PunchEndr *Node.js, Express, ReactJS, MongoDB, Apollo GraphQL*

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

Single-page web app inspired by Kickstarter

- Employed a responsive search feature for projects and categories using a GraphQL server.
- Created a multi-part form implementing features such as using multiple inputs or a datepicker to select a date, uploading and previewing images with AWS S3, and writing stories via a Draft.js based rich text editor.
- Styled preview panels for rich text articles by using event listeners that expand the panel and move the blurred section on hover.

Super *Node.js, Express, ReactJS, Redux, MongoDB*

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

Single-page web app inspired by Medium

- Combined the usage of the react-cropper library, Canvas API, and Amazon S3 web service to allow users to crop their profile & article images before resizing and storing the images.
- Created a site design that is responsive to different screen and font sizes by using breakpoints and media queries with Sass along with viewport-relative units in CSS.
- Used Mongoose virtual populate feature to facilitate an idiomatic setup of Mongoose models and their relations for fetching data across collections.

Prodigy *Ruby on Rails, ReactJS, Redux, PostgreSQL*

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

Single-page web app inspired by Genius

- Utilized the Selection Web API along with JavaScript event listeners to allow users to create annotations by highlighting lyrics.
- Implemented a form object model for track creation & updates of multiple objects on the back-end while minimizing AJAX calls from the front-end. The feature was created using the ActiveRecord Model mixin and using ActiveRecord transactions to ensure an all-or-nothing result upon form submission.
- Leveraged Rails' polymorphic association pattern for comment & annotation upvotes feature, thereby reducing database constraints.

EXPERIENCE:

Korean-to-English Translator

Self-Employed

Jan 2014 – Jul 2019

- Held responsibility for the translation of over 500 pages of documentation monthly while ensuring accuracy of content and consistency to the source documents.
- Performed research on Korean reference materials to make sure that references were accurate, often having to track down sources for secondary references.
- Developed the structure and formatting for completed documents including slideshows, essays and spreadsheets in Word, PowerPoint, and Excel.

EDUCATION:

University of Maryland – *BS Mechanical Engineering, 2015–2017*

App Academy – *Immersive web development program, 2019*