Kenel Zhao

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Skills

React.js | Redux | JavaScript | HTML5 | CSS3 | Ruby | Ruby on Rails | SQL | postgreSQL | AWS | Heroku | Webpack | Git

Projects

Consumables   live site | GitHub
React.js | Redux | JavaScript | Ruby | Rails | HTML5 | CSS3 | Webpack | AWS | Heroku | Git
Single-paged clone of Instructables, where a user can create, edit, delete recipes, upload photos, and search for recipes
- Utilized Amazon S3 for storing photos and reducing server load while also increasing scalability
- Created custom search API endpoint using URL query string and Rails Active Record query on the backend to limit user scrolling and enhance recipe accessibility
- Built CRUD functions for recipes and each of their steps to increase user's ability to personalize their recipe
- Completed login/logout functionality using password hashing and session tokens for user authentication

Kinship   live site | GitHub
React.js | Redux | JavaScript | Node.js | MongoDB | express.js | HTML5 | CSS3 | Webpack | Heroku | Git
Single-page app that allows a user to store, edit, and delete contact info of friends, family or acquaintances
- Merged MongoDB with React-Redux using custom AJAX requests that allows users to employ CRUD functions so users can manage their own contacts
- Implemented React-Redux to create a dynamic form where input fields appear when selected from a dropdown menu which allow users to customize what information to save about a contact
- Leveraged the use of modals and CSS animation to make link transitions more stimulating for users

City Score   live site | GitHub
JavaScript | HTML5 | CSS3 | D3 | Webpack | Git
Pure vanilla JavaScript application that lets users compare two cities' scores using 17 different categories
- Employed Javascript, D3, CSS animation to render visually appealing graphs, and tables for easy comparison
- Constructed custom toggle methods to render graph, table, and background images on click event so users can compare two different city, increasing user interactivity

Experience

Lab Technician / R&D Engineering Assistant | December 2015 - September 2019 | New York, NY
Clarapath, Inc.
- Completed NMJ counting, ALS research projects for CRO business that netted the company ~$100,000
- Managed ~$1 Mil worth of parts and equipment for the entire lab and R&D Engineering prototype, including ordering parts, maintaining vendor contacts and overseeing inventory/shipping communications with partner, Boston Engineering Corp.
- Composed wiring diagrams, instruction manuals, and related proprietary procedures for medical device prototypes
- Conducted independent R&D projects: measuring micron thickness accuracy with Keyence system and 3D reconstruction of 2D ultrasound images using ImageJ
- Itemized company expenses across R&D and CRO departments which streamlined the data retrieval process

Education

App Academy | Winter 2020 | New York, NY
Immersive software development course with focus on full stack web development, which entailed 1000+ hours of coding. Highly selective program with a 3% acceptance rate.

Stony Brook University | Spring 2012 | Stony Brook, NY
Department of Life Sciences, BS of Biology