

ELLIOT CHANG

FULL-STACK SOFTWARE ENGINEER

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TECHNICAL SKILLS • React • Redux • Javascript (ES5 & ES6) • Ruby • Ruby on Rails • Node • Express • Mongoose • PostgreSQL • MongoDB • HTML5 • CSS3

PROJECTS

REPS 'N' RECIPES | [Github](#) | [Live](#) *React • Redux • MongoDB • Express.js • Mongoose • AWS S3 • Node • Git*

- Implemented a modular and scalable backend architecture with MongoDB and Mongoose, enhancing application design flexibility through production.
- Developed a dynamic user interface using React and Redux, integrating Chart.js for real-time visualization of users' nutritional and fitness progress trajectories over extended periods.
- Incorporated the Spoonacular API through forms that the user could preview and submit the item's nutrition before adding to the database, with full CRUD operations.
- Engineered an exercise library and workout generator, incorporating GIFs using AWS S3, to make the application accessible for users of all experience levels.
- Collaborated with 3 software engineers and employed Git on a singular codebase while working on separate responsibilities in the scope of the project and limiting merge conflicts.

CLONEBNB | [Github](#) | [Live](#) *React • Redux • Ruby on Rails • PostgreSQL • jBuilder • AWS S3*

- Integrated CSRF protection to secure user authentication and authorization, ensuring restricted CRUD operations access to authenticated users only.
- Architected a RESTful API to implement CRUD operations, enabling users to interact with listings through reservations and reviews similar to Airbnb's core functionality.
- Developed dynamic search functionality with debounce optimization, querying the backend for string matching by city, reducing unnecessary re-renders and enhancing user interface responsiveness.
- Enhanced system efficiency by reducing database calls, leveraging SQL join operations, and implementing eager loading techniques, ensuring smoother data access and decreased latency during user interactions.
- Utilized JBuilder to structure fetched data for seamless integration of backend data retrieval with the frontend Redux state, resulting in a cohesive and responsive user experience.
- Integrated Google Maps API in the listing display pages, featuring custom radius-markers for approximate location visualization, enhancing user experience.

SWISHIFY | [Github](#) | [Live](#) *Javascript • Python • D3*

- Leveraged Python and its packages (requests and numpy) to interface with the NBA API, retrieving and locally storing JSON data for seamless integration with vanilla JavaScript operations.
- Iterated through JSON data pulled from NBA API and applied D3 and DOM manipulation to construct dynamic charts of All-NBA players' shot selection and efficiency.

EXPERIENCE

SUPERVISING ACCOUNTANT • *Kinsel Accountancy Corporation* • Montrose, CA **09/2017 – 05/2023**

- Implemented automation utilizing VBA scripts to generate internal operational and financial reports, increasing efficiency by 20+ percent.
- Built financial packages through financial analysis and forecasting, quantifying predictive loss calculations for 100+ companies, resulting in total settlements valuing over \$25+ million.
- Engaged in cross-functional collaboration with clients' accounting and executive management, as well as opposing legal parties, to collect sensitive records and support, negotiate, and mediate loss valuations.

EDUCATION

APP ACADEMY • Full Stack Software Development • San Francisco, CA **05/2023 - 09/2023**

UC RIVERSIDE • *B.S. Business Administration, Concentration in Finance* • Riverside, CA **09/2012 - 03/2017**