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 • Mongoose • AWS S3 • Node • Git*

- Engineered a robust, scalable backend with MongoDB and Mongoose, reducing server response times and enabling efficient handling of expanding user traffic.
- Developed an intuitive interface using React and Redux, and integrated Chart.js, offering real-time visual insights into nutritional and fitness progress, increasing user engagement and satisfaction.
- Integrated Spoonacular API, providing users access to 700,000+ nutritional items and enabling streamlined management through advanced CRUD operations, thereby enhancing user experience and tracking accuracy.
- Constructed an inclusive exercise library and workout generator utilizing AWS S3, designed to accommodate users of varying experience levels.
- Collaborated within a team of three software engineers, utilizing Git and Scrum methodologies on a unified codebase, achieving project completion within a 10-day turnaround with minimal merge conflicts.

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

- Fortified application with CSRF protection, restricting CRUD operations to authenticated users, bolstering data integrity and security.
- Crafted a RESTful API, mimicking Airbnb's functionalities, to facilitate seamless and intuitive user interactions, raising user satisfaction and app usability.
- Optimized search functionality by implementing debounce to trigger updates every 0.5 seconds, conserving resources and enhancing UI responsiveness by minimizing unnecessary re-renders, elevating user experience.
- Enhanced system efficiency by over 20% by optimizing database calls through SQL join operations and implementing eager loading techniques to ensure smooth data access and reduced latency.
- Employed JBuilder for structuring JSON responses, optimizing data interaction between backend and frontend, and enabling a normalized Redux state for improved data coherence and management in React.
- Incorporated Google Maps API, delivering enriched location visualizations and aiding users in making informed decisions.

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

- Utilized Python to connect with the NBA API, swiftly integrating retrieved JSON data with JavaScript, enhancing data retrieval speed and boosting application performance by over 50%.
- Processed and visualized over 10,000 data points from the NBA API, utilizing D3 and DOM manipulation to create detailed and accurate charts depicting All-NBA players' shot selection and efficiency.

EXPERIENCE

ACCOUNTANT SUPERVISOR • *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 analysis and forecasting, quantifying predictive loss calculations for 100+ companies, resulting in total settlements valuing over $25+ million.
- Coordinated cross-functional collaboration with clients' accounting department, executive management, and opposing legal parties to negotiate and mediate loss valuations, resulting in a 25% reduction in settlement time.

EDUCATION

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

UC RIVERSIDE • *Bachelor of Science (B.S.) in Business Administration (Finance)* • Riverside, CA   **09/2012 - 03/2017**