Fred Chien

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EDUCATION

App Academy   2022
1000-hour full-stack web development intensive with <3% acceptance rate
University of Southern California   2017 - 2021
Bachelor of Science, Business Administration

SKILLS

React · Redux · JavaScript · Express.js · Ruby on Rails · PostgreSQL · MongoDB · HTML · CSS · AWS S3 · Git · REST

PROJECTS

Solar Powered | React · Redux · Rails · PostgreSQL · AWS S3   Live | GitHub
Pixel perfect full stack clone of Steam, displaying a variety of video games for users to purchase and review.
- Optimized Rails backend controllers and Redux state, reducing HTTP fetches by 75% without sacrificing performance.
- Offloaded over 300 game images to AWS S3 cloud storage and designed custom React components (image carousel, tab list, dynamic review aggregation) to construct an interactive but lightweight user interface.
- Employed AJAX requests with JavaScript promises and built over 25 corresponding RESTful routes to fetch and store data asynchronously, powering the functionality and interactivity of the app.

Cubberd | MongoDB · Express · React · Node.js (MERN stack)   Live | GitHub
Highly interactive recipe planning app that searches and scores recipes based on user-selected ingredients.
- Served as "flex developer" on a team of four engineers, eliminating roadblocks for teammates and minimizing workflow disruption through proactive end-to-end testing and thorough debugging.
- Developed REST API endpoints to drive the app's core feature of recipe and ingredient searching.
- Created intuitive buttons using React to enable favoriting and unfavoriting recipes with full backend support, empowering users to save their favorite recipes and enhancing the user experience.
- Ideated and implemented the app's feature spotlight using the ReacTour library, allowing efficient showcasing of the app's features and minimizing the onboarding time for new users.

CalPal | JavaScript · Chart.js · HTML · CSS   Live | GitHub
Colorful single-page application for visualizing calorie and macronutrient information.
- Constructed a JavaScript Object Notation (JSON) data structure to provide nutritional data on over 50 food items in a lightweight and seamless way.
- Utilized JavaScript and vanilla DOM manipulation to create a dynamic single-page web app with a satisfying and responsive user interface.
- Employed the Chart.js library to dynamically visualize 8 nutritional data points across 4 responsive charts, taking care to extend the default styling and tooltip functionality to maintain the aesthetic harmony of the app.

WORK EXPERIENCE

Fourstar Group | *Product Development Specialist*   July 2021 - June 2022
- Generated and designed over 20 product offerings to further the firm's Electronics category for global retailers Walmart, Dollar General, Dollar Tree, and Family Dollar.
- Coordinated cross-functional teams including QA/QC, Art, Merchandising, and Sales to maintain brand consistency at each step of the product development process.

Match Stoneware | *Production Potter*   August 2019 - March 2020
- Hand-crafted pottery dishware for use in Michelin star restaurants across the country, adhering to customer-provided specifications with a meticulous eye for detail and consistency.
- Streamlined workflow to meet all production quotas and deadlines, on average creating over 200 pieces (or $9,000 of product) monthly.