

Fredo Chen

Software Engineer, Los Angeles

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SKILLSET: JavaScript (ES6), jQuery, TypeScript, React, Redux, Node.js, Express, SQL (PostgreSQL), NoSQL (MongoDB/Mongoose), Webpack, Gulp, Git/Github, HTML/SCSS, Bootstrap, Material UI, Jest, Enzyme, Bcrypt

EXPERIENCE

ReactType | Software Engineer

2020 - Present

- Developed a prototyping tool for React applications that allows developers to quickly mock-up designs with an easy-to-use GUI and export the work as code, facilitating rapid ideation and initial set-up of their projects
- Implemented React with Context API as a state management solution, simplifying access to application's state hierarchy with the consumer/provider pattern and eliminating need for excessive overhead or prop-drilling
- Used React DnD library to overhaul main prototyping functionality, exposing HTML5's native drag and drop API to React's virtual DOM and resulting in a more intuitive user experience
- Built a new export feature for Next.js by writing scripts that generated code as well as folder structures into a performant package that pre-renders components into static, reusable and cacheable markup.
- Refactored codebase with TypeScript to ensure an efficient development workflow by catching type errors at compile time in order to minimize debugging during runtime and reinforce code integrity across the team
- Incorporated comprehensive unit-testing using Jest / Enzyme to ensure consistent behavior and validate functionality
- Product developed under tech accelerator OS Labs (opensource.labs.io)

Ruben Postaer & Associates | Creative Web Developer

2015 - 2019

- Led front-end development for new ampm site launch, translating designs into fully-responsive interfaces using HTML/SCSS (Bootstrap 3) and lightweight animation libraries such as AOS.js, Slick.js, and Masonry.js
- Utilized jQuery and SVG.js to write scripts animating flight trajectories on an interactive map displayed at Southwest Airlines kiosks at industry business conferences
- Developed a Web-Based Training template with AngularJS that enabled dynamic generation of training modules based on lesson-specific JSON data used by Honda Sales associates nationwide
- Oversaw regular maintenance releases for ARCO.com as well as launches for regional ARCO Mexico site and the franchise-facing ARCO Brand Standards portal
- Provided key support for the development team behind the Honda Automobiles website, making updates to the pre-owned vehicle finance calculator and implementing site-wide user tracking tags

OPEN SOURCE

DevShark | *Developer resource aggregator*

- Leveraged Material UI and React Hooks with a controlled input pattern to build a form modal that efficiently validated, captured and sent user-submitted resources to a relational database, ensuring data integrity.
- Configured Webpack to bundle and minify front-end scripts and stylesheets into deployment-ready code, and enabled a backend proxy with hot module reloading to boost development workflow

FairPay | *Tool promoting industry compensation transparency*

- Implemented PostgreSQL queries in Express middleware functions to handle quick retrieval of sensitive data from an ACID-compliant relational database to be displayed on the front end
- Utilized D3 to generate comparative visualizations by leveraging it's data-driven and framework-agnostic approach to attach salary data to DOM elements and transform them into useful infographics

EDUCATION

University of California, Los Angeles | B.S. Applied Mathematics

2011

TALKS

Intro to GraphQL | SingleSprout Speaker Series

2020

INTERESTS

Driving at night listening to house music, swimming laps in heated pools, learning new languages, advocating for mental health, unusual applications of creative technology, annual treks to Burning Man, trying exotic cuisines