

CHRISTINA CHU

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[Portfolio](#)

[LinkedIn](#)

[Github](#)

SKILLS

JavaScript, React.js, Redux.js, MongoDB, Express.js, Ruby, Ruby on Rails, Postgres, SQL, Git, CSS3

PROJECTS

Thesana (React, Redux, Ruby on Rails, PostgreSQL, CSS3, jQuery)

[Live Site](#) | [Github](#)

Pixel-perfect implementation of a project management web app based on Asana

- Optimized web component renderings using React lifecycle methods and Redux state changes, resulting in a minimal number of DOM operations for a faster user interface
- Implemented precise CSS3 styling including the use of pseudo-selectors, keyframe animation, and transitions to accentuate key moments in the user experience triggered through attached event listeners
- Implemented RESTful API using Ruby on Rails and PostgreSQL and used eager loading to prevent N+1 queries from the backend

SpiraSketch (JavaScript, HTML5 Canvas, CSS3, Webpack)

[Live Site](#) | [Github](#)

Spirograph-style web toy that generates geometric sketches

- Implemented animation of roulette curves using parametric equations that allowed for user customization of speed and size of each rendering
- Dynamically created HTML elements using vanilla Javascript DOM manipulation in response to user input, resulting in a faster, more flexible app with minimal loading time
- Utilized HTML5 Canvas to create fluid animation and interactivity--allowing users to start and stop recursive calls to requestAnimationFrame at any time

FlexJobs (React, Redux, MongoDB, Express.js, Material UI, GitHub Jobs API, Node.js)

[Live Site](#) | [Github](#)

Job aggregation app that matches software developers with best-fit job postings using natural language processing

- Incorporated Retext Natural Language Processor and React-D3-Cloud NPM package to generate listing analysis and key-phrase cloud maps
- Integrated NoSQL database using MongoDB, Express.js, and Node.js in the backend to store data fetched from GitHub Jobs API and user-submitted resumes
- Incorporated File API and PDF.js using promises to convert local PDF files to text as a client-side operation
- Dynamically set classes for DOM elements using setTimeout, creating cascading CSS animation

EXPERIENCE

Program and Data Analyst

EveryOne Home

Sept 2016 - Oct 2018

- Self-studied and developed Excel VBA macros and Google Sheets scripts to automate monthly reports, saving 20 hours/month of staff time across the organization
- Led project to integrate local branch of Dept. of Veterans Affairs into community initiatives; collaborated through iterative meetings and troubleshooted key problems through proposals
- Managed issues-reporting for website and distributed Excel tools; served as liaison to answer client questions

AmeriCorps Vista - Community Organizer

United Way California Capitol Region

June 2016 - Sept 2016

- Organized community events and served as representative for affordable housing complex of 90+ households
- Managed meal programs and youth enrichment activities, retaining 80% of initial group through incentive programs and engagement

EDUCATION

Full Stack Software Engineering Graduate, App Academy

Immersive software development course with focus on full stack web development with <3% acceptance rate

B.S. Math and Economics, University California @ San Diego

Relevant courses: Geometry in Computer Programming, Mathematical Reasoning, Number Theory