

# CHRISTINA CHU

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[Portfolio](#)

[LinkedIn](#)

[Github](#)

## SUMMARY

Software engineer with a passion for creating experiences that spark joy. Accomplished in full-stack web development. Highly skilled in React, Redux, Javascript, Ruby, and Ruby on Rails.

## SKILLS & EDUCATION

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

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

**Full Stack Software Engineering**, App Academy

## 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, minimizing the number of DOM operations for a faster user interface
- Implemented RESTful API using Ruby on Rails and PostgreSQL and used eager loading to prevent N+1 queries from the backend
- Implemented precise CSS3 styling using pseudo-selectors, keyframe animation, and transitions to accentuate key moments in the user experience triggered through attached event listeners

**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***

- 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 Retext Natural Language Processor and React-D3-Cloud NPM package to generate listing analysis and key-phrase cloud maps
- Applied File API and PDF.js using promises to convert local PDF files to text as a client-side operation

**SpiraSketch** (*JavaScript, HTML5 Canvas, CSS3, Webpack*)

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

***Spirograph-style web toy that generates geometric sketches***

- Implemented roulette curves using parametric equations that allowed for user customization
- Dynamically generated HTML 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

## EXPERIENCE

### **Program and Data Analyst**

*EveryOne Home*

Sept 2016 - Oct 2018

- Saved 20 hours/month of staff time across the organization by developing Excel VBA macros and Google Sheets scripts to automate monthly reports
- Managed issues-reporting for website and distributed tools; resolved technical questions from clients

### **AmeriCorps Vista - Community Organizer**

*United Way California Capitol Region*

June 2016 - Sept 2016

- Organized community events and served as representative for housing complex of 90+ household