CHRISTINA CHU

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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 for consistent, attractive design, using color gradients and keyframe animation 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

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

- Designed user interface and graphical components for consistent user experience across website; optimized metadata for Search Engine Optimization and accessibility
- Implemented Natural Language Processing to parse text and populate Redux state with sorted data
- 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

SpiraSketch *(JavaScript, HTML5 Canvas, CSS3, Webpack)*   Live Site | Github
Spirograph-style web toy that draws mathematical curves

- Designed simple, intuitive user interface using re-usable code modules that could be scaled up or down gracefully
- Dynamically created HTML elements using vanilla Javascript DOM manipulation, resulting in a faster, more flexible app with minimal loading
- Utilized HTML5 Canvas to create fluid animation and interactivity--allowing users to start and stop recursive animation calls at any time, in addition to cursor effects using mouse events

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 over two years 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 Student, App Academy (Winter 2019)
    Immersive software development course with focus on full stack web development with <3% acceptance rate
B.S. Math and Economics, University California @ San Diego (Winter 2015)
    Relevant courses: Computer Graphics in Programming, Mathematical Reasoning, Number Theory