

SKILLS

Consistently elegant, readable, and bug free code, JavaScript, React, Redux, C++, Ruby, Python, HTML, CSS, Slim, Rails, PostgreSQL, AWS (Chime, Transcribe, Lambda), Git, Heroku, Jest, RSpec, Node.js, Express.js, Webpack, data plotting & visualization using the React Recharts library, strong understanding of algorithms and data structures

EXPERIENCE

Full Time Junior Software Engineer

Prevail Legal | November 2020 - December 2020

- Added JavaScript and Ruby code to accurately store, persist, and display users' **local time zones** throughout the entire application, including email invitations regularly sent out to **clients in different regions**.
- Designed and implemented a highly interactive and user-friendly [price calculator](#) that generates a detailed side-by-side breakdown of the cost of the company's remote depositions and the cost of in-person alternatives.

Full Time Software Engineer | promoted after one month

Prevail Legal | December 2020 - current

- Re-engineered and **simplified** the underlying structure of two views using a **CSS grid** and added **JavaScript** to allow for **seamless drag and drop** as well as **resizing functionality** for various panels.
- Dramatically improved the company's **audio stream** handling service, **reducing its memory allocation by more than 2000%**, added JavaScript to **handle buffer overflow**, and wired in a **bandpass filter** to reduce noise, effectively eliminating unwanted transcriptions of random background noises.
- Limited the amount of data loaded into the user's browser by implementing a JavaScript controller that **dynamically and automatically fetches and loads new information** as needed, and simultaneously trims stale data from the **DOM**. This reduced the amount of built up **HTML** from about **4000 elements over 4 hours to only 100 at any given moment**.
- Successfully designed and implemented from scratch a complex and distributed audio-processing and transcription system using NodeJS, AWS Lambda, ECS, and SQS, Ruby on Rails, and JavaScript.

FUN PROJECTS

Balls and Boxes | (*JavaScript, CSS, HTML*) [Live](#) | [GitHub](#)

- Utilized the **PlainDraggable** JavaScript library to allow for seamless interaction with the 3 red balls.
- Coded a **custom level generator** that dynamically generates a potentially **infinite** quantity of **unique** new puzzles and adds difficulty with each successive win.
- Implemented a **swapping algorithm** that uses **CSS transform**, **setTimeout**, and the geometry of a circle to elegantly animate the motion of the balls.

In-Memory File System | (*C++*) [GitHub](#)

- Implemented a **trie** based file system efficiently where look-up and creation for both directory and file runs in **linear time**.
- Designed the system such that one method, `createNode`, can handle creating both a directory and a file.

EDUCATION

University of California, Davis - *BA*, 2017

San Francisco Conservatory of Music - *Private Study*, 2020

Awards

1st Prize - *SFCM Biennial Art Song Composition Competition 2019*

2nd Prize - *SFCM Biennial Choral Composition Competition 2018*

3rd Prize - *SFCM Biennial Choral Composition Competition 2020*

Undergraduate Citation for Outstanding Performance - *University of California, Davis 2017*