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## **SKILLS**

Languages: Python, C++, JavaScript, Ruby, CSS, HTML

Frameworks: React (with Redux), Ruby on Rails

Databases: SQL(PostgreSQL), NoSQL(MongoDB, DynamoDB), Object Storage(S3)

Web Audio: Web Audio API

Cloud Computing: AWS(API Gateway, Lambda, EC2, ECS, S3, DynamoDB, SQS, Transcribe, Chime), Heroku

Back-end runtime environments: NodeJS Testing: RSpec, Jest, React Testing Library

Version Control: Git Practices: Agile

Other: fluency in fundamental computer science concepts such as data structures and algorithms, clear, precise, and simple verbal and written communication, multi-tasking, intense curiosity, team-player, ability to navigate a complex and

highly quantitative environment

# **EXPERIENCE**

### Full Time Software Engineer | promoted after one month

Prevail Legal | December 2020 - current

- Successfully designed and implemented from scratch a modular client-send transcription service utilizing
   Websockets, AWS Transcribe, and the Web Audio API's Audio Worklet, efficiently processing audio inside of the AudioWorkletGlobalScope. The service is currently used by hundreds of users on a daily basis.
- Removed redundant instantiations of memory intensive objects, reducing the company's audio stream handling service's memory allocation by more than 2000%, added JavaScript to handle audio buffer overflow, and wired in a bandpass filter (my idea) to reduce noise, effectively eliminating unwanted transcriptions of random background noises.
- Reduced 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 3500 elements over 4 hours to only 150 at
  any given moment.
- 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.

### Full Time Junior Software Engineer

Prevail Legal | November 2020 - December 2020

- 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.
- Added JavaScript and Ruby code to accurately store, persist, and display users' local time zones throughout all of
  the application's views, and in email invitations regularly sent out to clients in different regions.

### **PROJECTS**

Balls and Boxes | (JavaScript, CSS, HTML) Live | GitHub

- 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 - Bachelor's, 2017, GPA: 3.6

San Francisco Conservatory of Music, Master's , 2017, GPA: 4.0

App Academy (3% acceptance rate) - Full-Time Immersive Certificate, 2020, Finished 3rd in my class.

#### **Awards**

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