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SKILLS

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

Frameworks: React, Ruby on Rails

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

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

Back-end runtime environments: NodeJS

Testing: RSpec, Jest Version Control: Git Practices: Agile

Other: Systems design (distributed systems), 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 complex and distributed full-stack audio-processing and transcription system using NodeJS (designed a multi-threaded backend to deliver sub 50ms processing per 150ms of 16khz audio), AWS API Gateway, Lambda, ECS, and SQS, Ruby on Rails, and React. This system is currently serving hundreds of users on a daily basis.
- 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.
- Dramatically reduced 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.
- 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 <u>price calculator</u> 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 - *BA*, 2017 San Francisco Conservatory - *Master's*, 2020

Awards

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