

Dongsoo Cha

(408) 714-8240

dongsoo.tchah@gmail.com San Jose, CA

[GITHUB](#)

[LINKEDIN](#)

SKILLS

React, Redux, Ruby, Ruby on Rails, JavaScript/ TypeScript, Mongoose, MongoDB, Node.js, Express.js, SQL, SQLite3, PostgreSQL, AWS, HTML, CSS, Webpack, jQuery, Git, Github Boards, Heroku, Docker

EXPERIENCE

Software Engineer, undisclosed startup in stealth mode, San Francisco

August 2021-Present

- Collaborate closely with team members to design and structure application's database, utilizing MongoDB to test data types on a small scale and ensure scalability of data
- Design and build testable RESTful APIs in Node and Express, utilizing Jest to test structure and consistency of data
- Convert entire stack to TypeScript, solving challenges of unexpected and unpredicted function behavior

App Academy Software Engineering Assistant, App Academy, San Francisco

May 2021-Present

- Mentor new students through the full App Academy Open curriculum (Ruby, Rails, Javascript, React, and SQL), answering questions in a time-sensitive manner and providing direction in complicated projects
- Provide insights into testing and debugging, and help students understand errors and walk through step-by-step in order to ensure complete understanding of course material

PROJECTS

Mango Music (React, Redux, Ruby on Rails, PostgreSQL, AWS S3)

[live](#) | [github](#)

Music app inspired by Apple Music where music lovers can listen to music and create playlists

- Created custom playbar to replace HTML5 default audio player utilizing React refs, allowing for seeking/fast-forward/rewind functions and maintaining audio and play-state while navigating between pages
- Hosted audio files on AWS, decluttering the application file tree and improving maintainability of database, and connected via Rails ActiveRecord attachments
- Adopted CSS Grid for consistency of table styling and eliminating need to have conditional styling depending on dataset size

FlashCode (MongoDB, Mongoose, Express.js, Node.js, React, Redux)

[live](#) | [github](#)

LeetCode study-buddy, where users can create flashcards and notes and interact with global user base via live messaging

- Managed backend design, evaluating advantages between embedding objects within User models as opposed to associating them, and testing inputs via Postman to ensure smooth connection to frontend team
- Applied LeetCode API with Axios calls to populate cards in MongoDB, and wrote corresponding validations to auto-validate whether a user-input problem exists based on the response from LeetCode
- Designed, built, and tested global message feed feature from backend to frontend, using React class components and refs to always scroll to newest message, and auto-generating messages on creation/update of cards in the Express routes

Visualize Sorts (Javascript, HTML, CSS, d3.js)

[live](#) | [github](#)

Sorting algorithm visualizer displaying d3 generated bar graphs of test arrays

- Implemented d3.js library to generate bars on a HTML SVG element, enabling non-distorting visualizations of arrays, with bar height representing element value
- Utilized Javascript async/await to allow for the SVG to re-render between iterations of sorting algorithms, and implemented sleep function to let user have control over sort speed

EDUCATION

Web Development - App Academy

Spring 2020

Immersive software development course with a focus on full-stack web development, which entailed 1000+ hours of coding.

Master of Music - Yale University

May 2019

Bachelor of Music - University of Southern California

May 2017