

Henry Tan

Software Engineer

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SKILLS

LANGUAGES & TECHNOLOGIES: Javascript, Ruby, Python, C++, SQL, HTML5, CSS3, React, Redux, Ruby on Rails, PostgreSQL, SQLite3, jQuery, RSpec, Git, AWS, D3, Bootstrap, Node.js, Express, MongoDB, Mongoose, Heroku, Jest, Flask, Context

EXPERIENCE

Breathing.ai

Frontend Developer - Part-Time

Feb 2021 - Present

- Integrate Chrome Extension with backend endpoints using Fetch API to update the database.
- Implement Chrome extension features using React and Material UI for smooth and responsive UI.
- Design components with Context API for lightweight state management and to prevent prop drilling.
- Consult with UI/UX team lead component designs and features using Figma to enhance user experience.
- Participate in weekly team reports to technical project manager and CEO regarding product progression.

Backend Developer - Part-Time

Dec 2020 - Feb 2021

- Implemented Flask RESTful API with dynamic routing to generate endpoints for the frontend team to call.
- Collaborated with tech lead to improve relational database design to enhance the quality and consistency of information.
- Coordinated with frontend and UI/UX teams to create product functionalities roadmap.

PROJECTS

Henflix (*React, Redux, Ruby on Rails, and PostgreSQL*)

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

A bird-themed Netflix clone, media streaming platform, where users can sign up to stream TV shows and movies

- Implemented user authentication for user sign-in/sign-up using BCrypt hashing to protect personal information and custom model/controller-level validation to restrict video access to signed-in users.
- Optimized video fetching for efficient database calls by eager-loading AWS attachments and related content via Rails associations, avoiding N+1 queries and resulting in a faster user experience.
- Fetched videos and genres asynchronously, relying on Redux infrastructure and data-flow to populate custom React components with updated data for appropriate filtering and formatting, resulting in consistent and continuous presentation of video content.

Nutrify (*Javascript, Chart.js, and D3.js*)

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

A nutritional breakdown data visualization app that converts user input into nutritional data rendered in a donut chart and liquid fill gauges

- Configured form-based user interface, which triggers custom HTTP function and queries Nutritionix API for relevant data to be parsed and formatted properly for use throughout the application.
- Utilized the Nutritionix API's ability to filter out any inputs that do not relate to food and measurements accounting for human error and ensuring desired nutritional data for a more intuitive UX.
- Filtered and formatted data fetched from API into specific nutritional categories, using Chart.js to render a donut graph to display the overall nutritional value in a user-friendly display.
- Restructured nutritional data into multiple liquid-filled gauges using SVG elements to better visualize the percentage of FDA recommended daily intake provided by the nutritional value of given ingredients.

EDUCATION

Web Development - App Academy

2019

12-week, rigorous 1000 hour full-stack programming bootcamp with less than 3% acceptance rate.

Computer Science- Hunter College

2014 - 2018

Relevant Courses Taken: Software Design and Analysis I & II, Supervised C++ Programming Lab, Computer Architecture I