

# 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

## EXPERIENCE

### Backend Developer - Part Time

*Breathing.ai*

Dec 2020 - Present

- Implement Flask RESTful API with dynamic routing to generate endpoints for the frontend team to call.
- Collaborate with tech lead to improve database design to enhance the quality and consistency of information.
- Coordinate with frontend and UI/UX teams to create product functionalities roadmap.
- Participate in weekly team reports to technical project manager and CEO regarding product progression.

### Pharmacy Technician

*Whitman Pharmacy*

May 2017 - Aug 2017

- Aided 50 patients with payment transactions daily to prevent a backlog of prescriptions.
- Trained new incoming staff to be able to assist ~300 customers on a weekly basis.

## 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*

- The 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