

# Henry Tan

## Software Engineer

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## SKILLS

**LANGUAGES:** JavaScript, TypeScript, Python, PHP, Go, Python, SQL, HTML5, CSS3, HubL

**TECHNOLOGIES:** React, Redux, Node, Express, Flask, Ruby on Rails, HubSpot, Git, AWS, Expression Engine, Chrome Extensions

## EXPERIENCE

### [Black Spectacles](#)

**Software Engineer** (React, TypeScript, Node.js, Material UI, HubSpot, MySQL)

May 2022 - July 2024

- Led the migration from Expression Engine PHP to React/TypeScript, redefining frontend architecture and core feature development.
- Built a self-serve checkout portal using React, TypeScript, and Material UI, replacing legacy systems for improved usability.
- Developed reusable marketing website components with HubSpot, HubL, JavaScript, HTML, and CSS for consistent branding.
- Created internal admin tools, including a custom text editor for email templates, with backend SQL updates in MySQL.

### *Stealth Startup (Digital Health Industry)*

**Software Engineer** (Chrome Extensions, React, JavaScript, Node.js, Material UI, Python, Flask)

Dec 2020 - May 2022

- Developed the company's primary product, a Chrome extension, using React and Material UI to deliver a responsive, intuitive interface.
- Integrated Contentful CMS for streamlined content management, enabling non-technical users to publish updates autonomously.
- Designed state management with Context API for modular architecture, reducing prop drilling and improving performance.
- Implemented Chrome Extension Storage API for efficient data caching and persistence, minimizing API requests and optimizing performance.

## PROJECTS

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

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

*A bird-themed Netflix clone, a media streaming platform allowing users to sign up to stream TV shows and movies*

- Implemented user authentication with BCrypt hashing and model/controller-level validation, securing user data and restricting video access to authorized users.
- Optimized video fetching by eager-loading AWS attachments and related content via Rails associations, reducing database query times and eliminating N+1 queries for a faster user experience.
- Engineered an asynchronous data flow using Redux to dynamically fetch and display videos and genres, ensuring seamless filtering, formatting, and uninterrupted video presentation.

**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*

- Filtered and formatted API data into specific nutritional categories, utilizing Chart.js to visualize overall nutritional values in an intuitive donut chart for easy user interpretation.
- Restructured nutritional data into multiple liquid fill gauges using SVG elements, providing a clear and engaging view of the percentage of FDA-recommended daily intake based on ingredient values.

## 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**

Attended 2014 - 2018