

Henry Tan

Software Engineer

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EDUCATION

Bachelor's Degree in Computer Science with a Concentration in Bioinformatics - Hunter College May 2027
Web Development - App Academy 2019
12-week, rigorous 1000 hour full-stack programming bootcamp with less than 3% acceptance rate.

EXPERIENCE

Black Spectacles

Software Engineer (*React, TypeScript, Node.js, Material UI, HubSpot, MySQL*) May 2022 - July 2024

- Led migration from Expression Engine PHP to React/TypeScript, reducing page load times by 40% and increasing developer efficiency by 30% with improved frontend architecture.
- Built a self-serve checkout portal with React, TypeScript, and Material UI, reducing checkout time by 30% and boosting completed transactions by 25% through an improved UI, real-time validation, and seamless payment integration.
- Created internal admin tools, including a custom text editor for email templates, reducing manual email errors by 20% and enabling non-technical users to manage templates autonomously.
- Developed reusable marketing website components with HubSpot, HubL, JavaScript, HTML, and CSS for consistent branding.

Stealth Startup (Digital Health and AI Industry)

Software Engineer (*Chrome Extensions, React, JavaScript, Node.js, Material UI, Python, Flask*) Dec 2020 - May 2022

- Led the development of the company's flagship AI-driven Chrome extension, transitioning from prototype to beta launch, resulting in 1,000+ user installations within the initial launch period.
- Optimized frontend performance by implementing efficient state management with Context API and utilizing Chrome Extension Storage API, reducing API requests by 60% and improving load speed by 30%.
- Integrated Contentful CMS, reducing content update deployment time, resulting in a 50% increase in content publishing frequency and enabling non-technical users to publish updates autonomously.
- Developed responsive UI with React/Material-UI, boosting user engagement and securing a 4.9/5 rating on Chrome Web Store.

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

- Developed robust user authentication using BCrypt hashing and MVC validation, securing user data, restricting unauthorized access, and implementing session-based authentication for seamless logins.
- Optimized video loading speed by eager-loading AWS attachments and related content via Rails associations, reducing query times, eliminating N+1 queries, and improving streaming performance.
- Designed an asynchronous data flow with Redux to dynamically fetch and display videos and genres, reducing API calls, improving responsiveness, and ensuring seamless filtering and uninterrupted playback.

Nutrify (*Javascript, Chart.js, and D3.js*) [live](#) | [github](#)

An interactive data visualization app that translates user input into a detailed nutritional breakdown with engaging charts

- Visualized nutritional data with Chart.js and D3.js, transforming user input into an intuitive breakdown with interactive charts.

SKILLS

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

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