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 a **custom email template editor**, reducing **errors by 20%** and enabling non-technical users to manage in admin tools.

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+ installs** and a **4.9/5 rating** on the Chrome Web Store by delivering a responsive **React/Material-UI** interface.
- 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**, accelerating content updates and enabling non-technical users to publish autonomously.

PROJECTS

Issue Tracker (*React, Next.js, Prisma, RadixUI, Tailwind CSS, and MySQL*)   live | github
An issue tracking dashboard that displays real-time summaries, interactive charts, and a feed of recent activity.
- Implemented **Google authentication** with **NextAuth**, enabling secure login and restricting issue updates/deletions to authenticated users.
- Optimized **database queries** for generating dynamic page metadata using **React's cache utility** to reduce redundant fetches.
- Implemented **URL param–based issue filtering**, generating dynamic **Prisma queries** synced with dropdown and table selections for **shareable, persistent views**.

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 validatio**n, 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, reducin**g API calls**, improving responsiveness, and ensuring seamless filtering and uninterrupted playback.

SKILLS

LANGUAGES: *JavaScript | TypeScript | SQL | HTML5 | CSS3*
TECHNOLOGIES: *React| Redux | Next.js | Node | Express | Flask | Ruby on Rails | HubSpot | Git | AWS | Chrome Extensions*