



BRENNAN HO

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<https://brennanho.github.io>

Technical Skills

Languages: JavaScript, React, Node.js, HTML, CSS, Python, C++
Technologies: Storybook, Jest, Testing Library, Express, Cypress, Next.js, Git, Jenkins, Docker, AWS

Professional Experience

Associate Software Engineer Realtor.com

Richmond, B.C.
Jan 2021 – Present

- Built full-stack web audit tool that compares and analyzes the performance of user provided webpages
 - Led design and development to create a minimum viable product
 - Implemented an algorithm to run and resolve audits in parallel to achieve efficient runtimes
 - Integrated the tool in our continual release process when comparing our largest consumer facing beta and production web pages that services millions of users daily
- Designed and implemented full stack monitoring tool that analyzes companywide GitHub repositories
 - Developed script to scrape and analyze all front-end code repositories across the organization collecting information on package/module versions and functions/components consumed
 - Deployed script as a scheduled Jenkins job to run daily, aggregating results and uploading the scraped data as JSON file to an S3 bucket in AWS
 - Created front end React application to showcase the scraped data in a table format with intuitive color coding signifying the consumption patterns and overall health of an application
- Developed 20+ shareable consumer facing UI components that are shared across all React projects
 - Implemented React shareable UI components in Storybook
 - Created test suites for each component with 90%+ coverage
 - Resulted in shared usage across various teams within the organization i.e. Homepage, Search, Details, and Local pages

React, Next.js, Node, Google Lighthouse, Puppeteer, AWS, Jenkins, Docker, Figma, React Testing Library, K6, Worker Threads

Software Engineering Intern Realtor.com

Richmond, B.C.
Sept 2019 – Aug 2020

- Developed automation scripts for streamlining development in UI component libraries
 - Created script to fetch information from Jira and GitHub to populate data in project changelogs
 - Designed and implemented script to generate boilerplate code for new components in library to enforce consistency and best practices for developers
 - Resulted in increased adoption of use and contribution to UI component libraries and made PR reviewing process a lot easier for developers
- Led web side migration of new SaaS mobile analytics and attribution platform
 - Implemented functions for generating new deep links for web sites mobile app banners
 - Leveraged feature flags to ensure smooth and rigorously tested migration
 - Tested and generated reports for 3rd party scripts for generating new mobile app banners

React, Storybook, Node.js, GitHub, Cypress, React Testing Library, Optimizely



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IT Intern York House School

Vancouver, B.C.
Apr 2017 – Mar 2018

- Built library checkout system for tech supplies/hardware for students and staff
 - Created web form with a Google script on the backend which runs on form submission, updating database with borrowed items, removing, and deleting borrowed entries.
 - Implemented a scheduled runner, automating email reminders for students and staff who had gone past their borrow limit
 - Resulted in minimum saving \$1500+ dollars annually for the institution, and instances of late-returned or lost items were reduced by over 40% in the first 4 months
- Reimaged and deployed Windows and Mac computers for the entire school
 - Updated, installed, and executed scripts to install necessary school software.
 - Created custom OS images that came with full suite of educational software, folder and desktop structure, and user specific data

JavaScript, Google Suite, Google Scripts, Google Sheets API

Projects

YouTube Caption Search

- Created chrome extension that displays a live interactive dropdown list with timestamped captions based on a basic user text search
- Actively engaged users via Chrome store reviews, Reddit, and an on uninstall triggered survey that would ask for suggestions that would improve the application
- Continuously supporting 3000+ weekly users with a 4.5-star rating and regular weekly growth

JavaScript, HTML, CSS, Google Chrome APIs, YouTube API

Set

- Created multiplayer online version of the Set card game
- Designed and implemented different game states i.e., in game, lobby, and main screen
- Built server and designed algorithm to handle multiplayer games

React, Express, Socket.io, Heroku

Education

Simon Fraser University

Sept 2014 – Dec 2020

Bachelor of Science – Joint Major in Mathematics and Computing Science

Interests

Skateboarding, Tennis, Volleyball, Pickleball, Guitar, Piano, Board Games, Poker, Cuphead, Street Fighter, League of Legends, Hearthstone