Yiheng Ding

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Portfolio Website: www.yihengding.com

TECHNICAL SKILLS

- Languages: JavaScript, HTML/CSS, Python, C, C++, R, SQL, Racket
- Technologies: React, SASS, Tailwind CSS, Firebase, Command Line, Git, GitHub, PySpark

EDUCATION & HONORS

- **Year 2017 – Year 2021   University of Waterloo**
- Honours Bachelor of Mathematics in Statistics with Computing option
- University of Waterloo President's Scholarship 2018

- **Year 2021 – Year 2023   Boston University**
- Master of Science in Applied Data Analytics, 3.8/4.0 GPA

PROJECTS

Home Finder (GitHub | Live) – Technologies: React, Sass, Firebase, Geocoding API

- This website provides users with the capability to sign in or sign up using either their email or Google account. Upon logging in, they gain the ability to create listings for renting or selling their houses or apartments. All user data is stored and retrieved from Firebase.
- I divided the entire website into several pages, including the home page, profile page, and more. Additionally, I created various reusable components such as Navbar, Footer, and listing items.
- I created a custom hook by utilizing useState, useEffect and getAuth from Firebase to verify if a user is already logged in. This hook also returns the user's name if they are logged in.
- In order to pinpoint the location of the house, I utilized a Geocoding API to convert the address into coordinates. Then, I used the Leaflet library to display these coordinates on a map.

Movie & TV Show Search (GitHub | Live) – Technologies: JavaScript, Sass, The Movie Database API

- This website serves as a comprehensive movie database, enabling users to search for any movie or TV show they desire to watch.
- I constructed this website using vanilla JavaScript, leveraging DOM manipulation techniques to fetch data from The Movie Database API.
- This website is fully responsive. To enhance the presentation of movies, I implemented the Swiper library, allowing for an improved display of popular films.

GitHub Search (GitHub | Live) – Technologies: React, Tailwind CSS, GitHub REST API

- In this website, users have the ability to enter a GitHub ID and view the corresponding person's profile, including details about their repositories.
- I used the useContext hook in this project, which significantly makes utilizing props much easier.
- I utilized the useReducer hook to store and manage user information retrieved from the GitHub REST API. This approach greatly simplifies the project's maintenance compared to using the useState hook.

Cyberbully Classifier – Technologies: Python, PySpark

- This project involves analyzing more than 9,000 lines of Twitter tweets data, consisting of two columns: the text content and the type of cyberbullying. The objective of this project is to determine whether a tweet qualifies as cyberbullying or not.
- I trained the data using SVM (Support Vector Machine) and logistic regression, with a split of 0.2 for testing and 0.8 for training. The F1 score achieved for SVM is 0.9157, while for logistic regression it is 0.9154.