

William Chan

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EDUCATION

Westerns Governors University (in progress)

B.S. in Computer Science

Expected March 2023

Remote

New York University (partial)

60 credits toward a B.S. in Computer Science

2020 - 2021

New York, NY

- Relevant Coursework: Data Structures, Computer Architecture, Discrete Math, Algorithms

WORK EXPERIENCE

JEI Learning Center

9th Grade Level Math Tutor

September 2019 – March 2020

Brooklyn, NY

- Managed a group of 12-15 7th graders on weekdays, 1 on 1's private tutoring on weekends.
- Helped high school students prepare for SHSAT, two personal students out of three tutored received entrance offers to a NYC Specialized High School starting from non-acceptance diagnostic scores.
- Communicated with parents each week the progress of their child's learning which resulted in zero parental withdrawals from the program.

PROJECTS

Spotifyfree [[Live Link](#)] [[Repo](#)]

January 2023

A pixel perfect clone (no exaggeration) of Spotify with play and general search ability for virtually any song without pre-seeding by streaming audio straight from Youtube. Entirely frontend.

- Implemented a global state in a Single Page App with Redux to allow users to play music uninterrupted whilst navigating to other pages of the website. Full CRUD functionality with LocalStorage.
- Used Youtube Data API V3 to allow users to retrieve songs with queries and add any song to their personal playlists.
- Extensive use of CSS pseudo class selectors and transitions to make the application UI indistinguishable from the real Spotify.

YoutubeDLNow [[Live Link](#)] [[Frontend Repo](#)] [[Backend Repo](#)]

December 2022

Video downloader for youtube links consisting of a frontend and a backend, both working together to download and feed directly to the user for downloading. Users may additionally save their links to a database.

- Users can download any video at will on the frontend, which will make a request to my backend server to fetch the file.
- On the backend side, it uses Node/Express to fetch youtube videos with the yt-dl library and pipe the blob video object to frontend API calls.. Can convert to mp3 audio with the ffmpeg library if desired.
- Allows users to store youtube links via a Firebase DB and have authentication (optional) for their personal video links.

CalendarThings [[Live Link](#)] [[Repo](#)]

November 2022

Minimalist productivity app consisting of a todo list and a calendar with all information stored on the cloud per user and allows users to change dates and mark off completed tasks.

- Consists of a React web app and Chakra UI for styling with heavy use of flexbox for positioning.
- Pick and choose calendar date for your tasks, click the task to strikethrough it, and add and delete any task.
- Uses Firebase as a database for read/write/updates so users can view their list on any device. Uses Firebase authentication for user login and state, and can log in with Google.

Other Additional Projects [[My Github](#)]: [Bitcoin Hash Target Calculator](#), [Easy NYU Covid Screener](#), [Mailchimp Clone](#), + [more](#)

SKILLS & INTERESTS

- **Programming Languages/Frameworks:** React, Flexbox, JavaScript, Python, Node/Express, HTML/CSS, Java, C
- **Foreign Languages:** Native English Speaker, Fluent Cantonese, Beginner Mandarin
- **Interests:** Programming, Visual Design, CSS, Running, Studying Philosophy, Reading