

Jian Hong Wu

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SKILLS

React, Redux, Ruby, Rails, Javascript, jQuery, SQL, HTML5, CSS, GIT, AWS

PROJECTS

Yuutubu (ReactJS, Redux, Ruby, Rails, Javascript, PostgreSQL, AWS, Webpack)

[live](#) | [github](#)

Yuutubu is a full stack web app that mimics Youtube, using mentioned technologies. Users can search for, upload, and watch videos, as well as leaving likes / dislikes, comments, and subscriptions.

- Implemented video thumbnail previews using React to create components which utilize jQuery AJAX to request data from the backend. A series of React component level event listeners are set to update the Redux state to render the preview if the user is hovering above the thumbnail.
- Integrated a video mini-player leveraging React and Redux to control the component state for a seamless transition between the video page, and the main page.
- Developed a custom video UI for the main video player. The UI is built to resemble that of youtube, implementing video playbacks, volume control, play, pause, and restart, as well as fullscreen and mini-screen.

MushroomStory (Javascript, Webpack, HTML5 Canvas)

[live](#) | [github](#)

MushroomStory is a platform game that runs on HTML5 Canvas

- Utilized Object Oriented Programming to maintain readability and structure to control game logic by creating javascript classes containing properties and methods for specific tasks.
- Developed algorithms which calculates object collisions, exerting virtual gravity, and friction for fluid movements, and utilizing sprite sheets for animations.
- Implemented a moving Viewport where data from a Map array containing information of the game is mapped to the Viewport matrix which is then rendered using HTML canvas.
- Integrated a UI using Audio Web API to allow the user to mute, pause, and reset the game.

EXPERIENCE

Associate Electrical Engineer

Harris RF Communication

July 2017 - Apr 2019

- Worked in a team to manage the company's electrical components and schematics database.
- Improved team's performance by expediting support to other Engineering groups by acquiring, updating, and uploading components to database within a business day's time.
- Participated, and contributed to a multi-team project to create a new process to acquire components from vendors. The current process was creating supply shortages which were bringing factories lines down, and affecting business.

Engineering Intern

MKS Instruments

Aug 2015-May 2016

- Supported Sustaining Engineering function in failure analysis, product repairs, and design improvements.
- Supported Lead engineer in gathering and documenting test data for failure analysis reports to be sent back to customers.

EDUCATION

Web Development - App Academy (Apr 2019)

BS Education - Rochester Institute of Technology (May 2017)

Related Courses:

- C++
- Robotics
- Embedded Systems Design