Adrian Collier

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Las Cruces, NM
GitHub

PROJECTS

Near Earth Asteroid Tracker UI

November 2022 - current

- Built a web application utilizing the NASA NeoWS API and Canvas API to visualize the solar system and plot nearby asteroids in their actual coordinates.
- Utilized Bootstrap for responsive design, HTML, CSS for styling, and JavaScript for functionality and data manipulation.

Spotify API Audio Visualizer UI

July 2022 - current

- Developed an audio visualizer web application using HTML, CSS, JavaScript, Bootstrap, React, Node.js, Express.js, and MongoDB
- Integrated Spotify's API to allow users to search and play any song or artist
- Utilized D3.js to create a dynamic and interactive visualization of the audio data returned from the Spotify API
- Built a search bar that allows users to search for any song or artist
- Implemented responsive design using Bootstrap to ensure optimal user experience on all devices
- Utilized MongoDB for storage of user-generated data
- Faced challenges of integrating Spotify's API JSON data into D3 usable visual representation of the endpoints.

Snake Game

October 2022 - November 2022

- Developed an interactive snake game using HTML, CSS, and JavaScript
- Implemented object-oriented programming principles to control the snake's movement and collision detection with the apple and the border
- Utilized event listeners to allow for user interaction and restart the game
- Added sound effects and a score system to enhance user experience
- Faced challenges of creating a collision detection algorithm to detect apples, walls, self-collision.

SKILLS

- Languages: Python, JavaScript, C, Java
- Frameworks: Django, Node.JS, Express.JS, React
- Tools: jQuery, Unix, Git, Github, Postman
- Databases: MYSQL, MongoDB

EDUCATION

Bachelor's of Science Computer Science

New Mexico State University

Jan 2020 - Dec 2023

Las Cruces, NM

ACTIVITIES

- NMSU Programming Club
- Las Cruces ToastMasters Club