

Spencer Lee

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SKILLS

JavaScript, React, Redux, Git, Ruby, Rails, SQL, HTML, CSS, Python, NumPy, Pandas, Matplotlib, MongoDB, Express, Object-Oriented Programming, Data Structures and Algorithms

PROJECTS

InDevView (Node.js, React, Redux, MongoDB, HTML5, CSS3, Express)

[Live](#) | [GitHub](#)

- A MERN stack project that incorporated Socket.io, a websockets library that allows for real-time communication between users
- Collaborated with two other developers in a GitFlow environment
- Inspired by websites that help developers practice such as LeetCode and HackerRank
- Incorporated a room lobby system in which users must enter an entry code if they are not the host and users inside the lobby can communicate in real-time via websockets
- Engineered a system with AJAX requests in which a file with the code written inside the Monaco code editor is ran in the backend and the results are sent back to the frontend

SplitUp (React, Rails, PostgreSQL, HTML5, CSS3)

[Live](#) | [GitHub](#)

- A clone of the website, Splitwise, in which users can keep track of expenses with friends
- Designed CRUD functionality for expenses and object-relational databases/associations to display expenses a user is involved with
- Developed user authentication utilizing BCrypt, salting, and frontend routes such that users must login in order to access certain pages

Event Horizon (JavaScript, HTML5, CSS3, Canvas)

[Live](#) | [GitHub](#)

- A JavaScript survival game inspired by arcade games of the past
- Utilized object-oriented programming and DOM to build specific in-game interactions and functionality
- Employed document listeners and game state so that the game display changes based upon the user's input (if valid) on the keyboard/mouse as well as restart/pause the game

EXPERIENCE

Cold Spring Harbor Laboratory

Cold Spring Harbor, NY

Data Science Intern

2020

- Researched visualization of convolutional neural networks (CNNs) utilizing Python, TensorFlow, and Pandas
- Created weekly reports to Dr. Koo to analyze the results generated by the CNNs

Northwell Pancreas Disease Center

New Hyde Park, NY

Research Intern

2016

- Collected data from CT images of L3 spinal segments with co-workers in a team of 10
- Established about 95% confidence in causation between nutritional status and pancreatitis
- Results of project were submitted for editorial review for potential publication

EDUCATION

App Academy

New York, NY

16-week Program

2022

Stony Brook University (Honors College)

Stony Brook, NY

B.S. in Applied Math and Statistics + Computer Science Minor (GPA 3.7)

2021

Awards: Dean's List 2017 - 2021