

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 allows for real-time coding interview practices between users in a online practice room

- Collaborated with two other developers in a GitFlow environment in which users can only make edits of their copy of the code before making changes to production code in order to ensure that production code stability is maintained
- Incorporated websockets via Socket.io so that users can write code live and live chat with each other inside of the room lobby and interview room
- Engineered a system in which user-written code in the frontend is ran in the backend so that the results of the user-written code can be compared with the expected outcomes for test cases

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 to allow users to create/read/update/delete expenses and object-relational databases to display expenses a user either owns or is a part of
- 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 such as moving/attacking as well as restart/pause the game

EXPERIENCE

Cold Spring Harbor Laboratory

Cold Spring Harbor, NY

Data Science Intern

2020

- Researched visualization techniques of machine learning algorithms such as convolutional neural networks (CNNs) for image recognition analysis
- Ran machine learning algorithms in Google Colaboratory/Jupyter Notebook to gather results for weekly reports
- Utilized Python, TensorFlow, and Pandas to write machine learning algorithms

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