Mark Mansolino

(908) 227-3779 GitHub LinkedIn Website Email

SKILLS

JavaScript, TypeScript, Python, Django, React, Redux, Node, Express, PostgreSQL, GraphQL, MongoDB, Flask, HTML5, CSS3, SQL, Git

EXPERIENCE

Software Engineer (3-month contract)

ProcessLenz, February 2021 - May 2021

- Acted as CTO of a pre-revenue startup, making technical decisions and building the company's software-as-a-service product
- Took responsibility for whole software development process, converting existing Django codebase to use Django Rest Framework while moving front end to React
- Delivered a successful beta launch of the application to users by iterating on pre-existing codebase and adding new features from scratch
- Planned new features with CEO, then built them independently without assistance
- Quickly adapted to React/JavaScript and HTML/CSS template codebase in order to build a front end with custom functionality

PROJECTS

Taskflow (ReactJS, JavaScript/ES6, Express, Sequelize, NodeJS, PostgreSQL, CSS) Link | GitHub

Create, move around, and delete tasks and columns in shared projects. Integrated with Trello API.

- Designed automatic scripted drag and drop sequences using the react-beautiful-dnd library along with React Hooks, creating striking visual presentations of coded events for a smooth front-end user interface
- Integrated user interface with the Trello Developer API, giving the option for user interactions to be saved and reflected on a Trello board instead of the application's database
- Persisted changes in DOM element locations across user sessions by saving drag and drop outcomes in a PostgreSQL relational database using Sequelize ORM, delivering a consistent user experience

Binary Tree Visualization (TypeScript, GraphQL, Apollo, React, MongoDB, CSS) Link | GitHub

Interactive, animated visualization of binary search tree data structure

- Wrote React frontend in TypeScript to display a visualization of a binary search tree that animates tree node insertion and rearrangement using the react-spring library to animate changes in CSS positioning based on React state changes
- Built GraphQL server to interact with MongoDB database to create, read, update, and delete data in response to Apollo queries

Prova (React / Redux, JavaScript, Python, Flask, SQLAlchemy, Alembic, PostgreSQL, Material-UI) Link | GitHub

Create, save, and display map information and running statistics

- Switched between Python and JavaScript on a regular basis, tracking information across every step of a full-stack application through two programming languages, from a Redux store to a PostgreSQL database, to deliver features
- Learned to utilize Mapbox GL to display interactive maps and store latitude and longitude coordinates and directions from the map service in the application's database to save and display routes on a map
- Collaborated with a team using Git source control and GitHub to share code with team members, troubleshooting and successfully resolving any code conflicts to continue to make progress

Chart Your Cash (React.js, JavaScript, Express, Node.js, MongoDB, Mongoose, Material-UI, Auth0) Link | GitHub

Make financial plans on an interactive graph that updates in response to user input

- Synthesized newly-entered data with preexisting data based on user input to update information in MongoDB collections and a React Context to save and display changing numerical data over time on an interactive line graph
- Converted knowledge of relational databases design to a non-relational NoSQL MongoDB database to store and retrieve data for a full-stack application, successfully incorporating an unfamiliar technology into an application without issue

EDUCATION

App Academy - Full-time, 6-month curriculum in software engineering focused on web development July 2020

Rutgers, The State University of New Jersey **New Brunswick, New Jersey**

Bachelor of Arts in Cell Biology and Neuroscience Class of 2019