

Melissa Stan

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Projects

Project 3

December 2022

Create a PWA MERN stack single-page application with a focus on data and user demand.

- Use React for the front end and GraphQL with a Node.js and Express.js server.
- Use MongoDB and the Mongoose ODM for the database by queries and mutations for retrieving, adding, updating, and deleting data.
- Include authentication (JWT) and protect sensitive API key information on the server.
- Stripe payment platform.
- Technologies implemented:

MeowWoof

October 2022

Created a RESTful API that follows a MVC paradigm, which is designed to help keeping track of animals in a pet shelter.

- Search and filter function where animals can be filtered by a variety of characteristics
- Designed a functional volunteers dashboard where volunteers can assign an animal under their care
- Dynamic surrender function, which allows new animals added to the database and is updated in the volunteer's dashboard
- Used MySQL and the Sequelize ORM for the database.
- Included authentication using express-session and cookies
- Protected API keys and sensitive information with environment variables.
- Rendered the website with Handlebars.js as the template engine and created HTTP requests to establish routes
- Technologies implemented: SendGrid, Express, Express-session, Node.js, Sequelize, Express-handlebars, and Bcrypt

Turnip Fest

September 2022

Created an interactive website that generates a recipe based on user's special diet preferences along with choosing music preference

- Fetched API requests to server-side APIs that tailor to user preference in music.
- Used client-side storage to store persistent data.
- Designed using a CSS framework (i.e., TailWind).

Coding Languages/Frameworks

- | | | |
|------------------------|---------------------|-------------------------------|
| • HTML5 | • Agile Methodology | • Node.js |
| • CSS3 | • Bootstrap | • MongoDB |
| • JavaScript | • Tailwind | • MySQL |
| • jQuery | • React.js | • Git |
| • Progressive Web Apps | • Express.js | • Progressive Web Application |

Education

Georgia Institute of Technology, Atlanta, GA

December 2022

Full Stack Web Developer Course

- Computer Science applied to JavaScript
- Server Side Development (MERN Stack, Template Engines)
- Deployment and Delivery (Heroku, Git, GitHub Pages, Shell Scripting)
- API Design (Client-Server Model, API, Rest, JSON, AJAX, HTTP request methods, GraphQL)
- Quality Assurance (Unit Testing, Linting, Continuous Integration)

Georgia State University, Atlanta, GA

December 2020

GPA: 4.23, Honors Student

- Earned a Bachelor of Science in Psychology and Minor in Biological Science degree
- President's list and Awarded Zell Miller
- Graduated with research distinction