Ryan Monaghan

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SKILLS

React, Nextjs, Strapi, Redux, Ruby on Rails, JavaScript, TypeScript, jQuery, SQL, HTML5, CSS3, Git, AWS, Google Cloud

PROJECTS

Betzy (Ruby on Rails, React.js, Redux, JavaScript, jQuery, Ruby, SQL, AWS, NPM, Webpack, HTML5, SASS/SCSS)   Live Site | Github
A single page full stack application inspired by the popular online store, Etsy

- Utilized Ruby on Rails to implement user authentication with BCrypt password encryption on the backend in conjunction with cookies to produce a user login that persists across browsing sessions.
- Established single set of Ajax requests to fetch relevant data pertaining to users, categories and products on initial render of the homepage, reducing backend calls and improving scalability.
- Applied SASS variables in conjunction with a simple check against the user table for toggleable color scheme, allowing for each user to enable or disable a Dark Mode theme while logged in.

AI Fitness Dash (JavaScript, IndexedDB, HTML5, Canvas, CSS3, Webpack)   Live Site | Github
An active visualization of machine learning using a genetic algorithm to produce navigating AI bots that adapt and evolve

- Developed an evolutionary algorithm using pure JavaScript, that combines the best genes from a batch of AI bots, sorted by the travel goal success or closest to goal position, to produce dynamically evolving generations that navigate a randomized map with increasing effectiveness.
- Integrated sliders with event listeners to trigger an update to its corresponding setting, allowing for easy user configuration of the algorithm and other settings such as population size and trial time.
- Created a collision system with directional triggers by checking the XY coordinates of Canvas rendered objects against each other within an update sequence, giving AI bots the ability to detect obstructions in their environment while navigating.
- Utilized the JavaScript requestAnimationFrame method rather than setInterval or setTimeout, resulting in reduced memory usage and smoother performance.
- Implemented IndexedDB with JavaScript promises to create a client-side database and store the new AI gene sets in the browser, allowing the page to be refreshed and reloaded on each round for a consistently smooth experience.

EXPERIENCE

Frontend React Developer
Moonfarmer / Finsbury Glover Hering, Jun 2021 - Present

- Collaborate with a team of developers and project managers in the planning, development and production of new websites and features on projects that include Prime Medicine, Hologic RSNA, FGH.com, and the Johns Hopkins Coronavirus Resource Center.
- Maintain and update the frontend data, CMS, and Daily Video content on the Johns Hopkins Coronavirus Resource Center.
- Implement and deploy new features, hotfixes and releases for the Johns Hopkins Coronavirus Resource Center.
- Create custom component libraries based on project specifications using React, Storybook, Typescript and CSS modules.
- Assist lead developers in creating standards for modular component building and page assembly with React hooks.
- Build and integrate headless CMS models using Strapi and React.

Junior Web Developer
Moonfarmer, Dec 2019 - Present

- Coordinate with project managers, design teams and other developers to maintain and produce new features for projects that include the GrownBy CSA app, Obesity Care Advocacy Network and the Johns Hopkins Coronavirus Resource Center.
- Utilize React, Typescript and CSS modules to create efficient, user-friendly client-side interfaces.
- Manage project features and workflow using Git and the Git-flow extension.
- Document and update the functionality of existing codebases.

IT Helpdesk Technician (Self-employed)
Ryan's Tech and Computer Services, Nov 2018 - Sept 2019

- Provide certified, on-site technical support and troubleshooting for computer and tech related issues.
- Professionally handle a variety of computer needs including: data transfer, Wi-Fi setup, hardware upgrades, installations and system maintenance.

EDUCATION

App Academy - (3% acceptance rate, 1000+ hours) Immersive full-stack software engineer course (Fall 2019)
Bergen Community College - Courses in Network Administration (Fall 2016)
Montclair State University - *BS - English* (Spring 2015)