


William Cowne

Junior Web Developer & Software Engineer

Contact

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 github.com/willco123

Skills

Languages:

JavaScript/ES6
TypeScript

Front-End Technologies:

React/NextJS
React Testing Library
HTML & CSS
SASS/Tailwind
WebPack

Back-End Technologies:

Express
Supertest
MongoDb/Mongoose
PostgreSQL/MySQL
RESTful APIs

Tools:

NodeJS
Jest
Playwright
Git/Github
Postman
Firefox Dev Tool

Hobbies

Avid Rock Climber
Video Game Enthusiast

Profile

A **Full-stack Developer** with a drive to continuously learn and leverage my skills to craft innovative solutions for complex problems. With over 2 years of software development experience, I am eager to collaborate and open to opportunities.

Projects

Rate a Dog

Developed From scratch, this project is designed with my 4 year old niece in mind as a way to get her to learn about various dogs and their breeds in a simple and interactive manner. The entire stack was written in Typescript, with ReactJS, ExpressJS and MongoDB.

- Features an "infinite" scrolling carousel, that the user can drag with a mouse or on a touch screen for seamless navigation.
- Makes use of the Intersection Observer API to implement a custom lazy loading strategy, in order to reduce the number of fetch requests to an external API when loading the image data.
- Implements a dynamic loading system for the data on the back-end. Due to the large amount of data, the image data is loaded and unloaded as the user navigates through the carousel, which acts to reduce the total load in the browser.
- Utilises various filters and sorting methods allowing users to navigate the collection with ease, this was implemented using mongoDB's data aggregation pipeline.

Portfolio

A Simple UI built with SEO and responsive design in mind

- Built with Typescript using Next.js 13 app-router and Tailwind CSS
- Leveraged server-side rendered components for SEO and parallel/intercepting routes for modals
- Implemented responsive design with custom animations using Key Frames and Tailwind config-defined themes
- Utilized script injection techniques to prevent 'Flash of Unstyled Content' (FOUC)
- Experimented with OBS/FFmpeg for GIF and thumbnail generation, and used GIMP/Inkscape for custom decals

Youtube Search Api

This project is a simple API written in Typescript. By exposing the Youtube API, a user can search the youtube database for videos or channels that match a query, and store said query in a MySQL database.

Education

University of Southampton - Electrical & Electronic Engineering

(2013 - 2016)

Graduated with a 2.1, Second Class Honors (Upper Division)

Other Employment

HMRC - Debt Management (Oct.2021 - Apr.2022)

JD Wetherspoons -Bartender (Jul.2016 - Oct.2021)