Welcome

Welcome to my web-development portfolio! I’m Simon Cooper, a budding full-stack web developer. This website features some of the projects I have created whilst learning web development. Some date back to 2017, around the time I started learn HTML, CSS and JavaScript. Since then, I’ve continued to learn various other web technologies, many of which are listed with the project descriptions. All of my projects here have some degree of interactivity, feel free to explore them!

Projects

Here is a selection of my personal web-development projects. All projects include the use of HTML, CSS and JavaScript in addition to the technologies listed with each one.

Links

Have a look at other front end projects of mine on CodePen. Peruse my profile at freeCodeCamp, the website where I began learning web development. Check out my GitHub account to view the source code of all the projects listed here and more.

About This Website

This website was built using webpack and is front end only (has no custom server). It takes advantage of webpack’s code splitting and tree shaking capabilities to optimize performance. Offline functionality is also included by integrating Google’s Workbox project via webpack, making this website a progressive web application (PWA). Front End projects that were originally stand-alone and non-React based have been converted to React components and hosted on this website locally. They are navigated to with React Router. Full stack projects (with custom servers) are hosted externally on Heroku and open a new tab when navigated to from this page. This website’s source code can be viewed on GitHub <a href=" https://github.com/joops75/portfolio">here</a>.

webpack, Workbox, React, React Router, React Loadable, React Masonry Component, reactstrap, Bootstrap

Noughts and Crosses

Play against an unbeatable CPU! The CPU analyses a maximum of three possible moves for each player and plays the optimum one. Try not to lose! Also known as tic-tac-toe.

jQuery

Simon Game

Successfully repeat a CPU-lead random sequence of 20 flashes to win! Play in strict mode to allow no mistakes. Based on the 1970s electronic game.

jQuery

Drum Machine

Play a variety of sounds by via mouse clicks or keyboard presses. Change the sounds assigned to each button by using the ‘set’ switch or ‘o’ key. Alter the volume via the slider control or arrow keys. The names of any actions will appear in the display. Remember to power-up the ‘device’ first via the ‘pow’ switch or ‘p’ key!

React, Redux, Sass

Dungeon Crawler

Progress through 4 randomly generated dungeons and defeat the boss to win! Walk into enemies to attack and level-up by defeating them. Damage is dealt according to level, weapon and dungeon.

React, jQuery

Force Directed Graph

An interactive graph showing national contiguity. Countries which are neighbours have their flags joined by a line. Mouse over a flag to reveal its country’s name and click and drag it to reposition.

D3

Choropleth Map

View a map of the US displaying the population % with a bachelors degree or higher for each state. Mouse over a state to view a popup for more information.

D3, TopoJSON

Treemap Diagram

View a diagram using proportionally-accurate rectangles displaying the top video games sales, movie sales or Kickstarter pledges. Mouse over a rectangle to view a popup for more information.

D3

Bar Coordin8er

Search for food and drink businesses in any location worldwide via the Yelp Fusion API. Login via GitHub and declare/cancel attendance for a venue on the current day.

Node, Express, jQuery, Bootstrap, MongoDB, Mongoose, React, Passport

Stock Charter

Search for a stock with the Alpha Vantage API by entering its ticker symbol (e.g. MSFT for Microsoft) and see its recent price data added to a chart. Re-plot a stock by re-entering its symbol and delete it by clicking on the cross next to its symbol. Watch the chart as it updates when other users edit it!

Node, Express, jQuery, MongoDB, React, D3, Socket.IO

Book Trader

An app that facilitates the borrowing and lending of books between users. Login and add your own books with the Open Library Books API by entering their ISBNs. Search for other users’ books available for loan by location and request to borrow them. Accept or decline borrowing requests. Get access to another user’s email when a borrow request is accepted to arrange the transaction.

Node, Express, Sass, jQuery, Bootstrap, EJS, MongoDB, Mongoose, React, Passport

Magnet-izer

View Pinterest-style ‘magnets’ with images and text. Login via password or Twitter to create your own magnets and appraise those of others. Only one ‘like’ or ‘dislike’ per user per magnet possible! Edit a magnet but beware that appraisal data will be reset. Merge local and Twitter-based accounts.

Node, Express, Sass, jQuery, Bootstrap, EJS, MongoDB, Mongoose, React, Passport, Masonry, Gulp, Browserify, Babelify, Watchify