

CARLIN SHAW

STEM Teacher
Web Developer

WEB DEVELOPMENT PROJECTS

React Portfolio | Github Link: [carlinshaw/react_portfolio_cs \(github.com\)](https://github.com/carlinshaw/react_portfolio_cs)

- Component-based design with useState hook to manage pages. Set state function and stateful variable sent as props in component hierarchy. One component is rendered at a time depending on if the stateful variable equals its name.
- State updater function is sent as prop to the header component. Event handler is on each nav item, which triggers a function to set the current page with the set page function.

SEO Accessibility Refactor | Github Link: [carlinshaw/SEO_accessibility_refactor \(github.com\)](https://github.com/carlinshaw/SEO_accessibility_refactor)

- Replaced divs with semantic HTML elements and alt attributes on images to make web pages accessible and search engine optimized.
- Consolidated redundant CSS and used cascade and inheritance properties to accurately apply styles to elements via its id, class or name.

3rd Party API's | Github Link: [carlinshaw/cshaw-weather-app \(github.com\)](https://github.com/carlinshaw/cshaw-weather-app)

- Uses vanilla JS and JQuery to manipulate HTML in the DOM. Weather data is fetched from openweathermap.org.
- Day.js library is sourced in the HTML and used to display the dates for the current day and for the following five days.
- JQuery selectors grab elements with their IDs and classes, .text() method sets the text content with the data to be display.
- Local storage stores an array of all the cities that have been searched, forEach loop iterates to create a button for each city.

Express File System Note Take | Github Link: [carlinshaw/express-notetaker-cshaw \(github.com\)](https://github.com/carlinshaw/express-notetaker-cshaw)

- Express Router and Node back-end to respond to front end GET POST and DELETE requests.
- GET requests are responded with sending the results of fs.readFile, POST requests are responded with first reading the file, then pushing the new note, then using fs.writeFile to replace the json file. DELETE request reads the current JSON, then uses JS filter method to exclude the note with the same id as req.params.id.

OOP Jest Inquirer Team Generator | Github Link: [carlinshaw/oop-profile-generator-cshaw \(github.com\)](https://github.com/carlinshaw/oop-profile-generator-cshaw)

- Node app that generates an HTML file. Inquirer gathers data from client in terminal, objects are formed from data using custom JS classes.
- A Manager, Engineer, and Intern class inherit the Employee parent class. Objects are created with new keyword and sending the object's attributes as arguments to the constructor and superclass constructor. Getter methods are in each class to return an object's attributes.
- Jest used to test whether classes create objects with correct attributes and methods.

Full Stack Sequelize Workout app | Github Link: https://github.com/carlinshaw/workout_tracker_app

- Sequelize models are created for various workouts like pullups and pushups, each with a primary key. Each workout has a user by referencing the user model's primary key.
- The main handlebars has a navigation bar which uses href links to link to a certain route which then uses express-handlebars engine and render method to send a certain handlebar page.
- Front end public JS folder has event listeners on handlebar elements which fetch controllers routes to create or read from Sequelize models

CONTACT



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WORK EXPERIENCE

Full Stack Bootcamp TA at Trilogy Education | May 2022 - Present

- **TA role** - use Zoom breakout rooms to pair-program with 3-9 students at a time. We would code short activities to clarify what the instructor taught over the 6 month full stack curriculum.
- **Tutor role** - Hour long sessions with students to teach, pair-program and debug their various web dev projects.
- **LA role** - 15-45 minute chat sessions with students to debug their code and help them progress in the development process.

OCPS AP CS Teacher Windermere High | October 2021 - January 2023

- **AP CS Principles:** taught functions, parameters, iteration and conditionals with Python, and basics of computer science. Had 83% pass rate of AP exam, 20% above national average.
- **AP CS A:** taught objects, classes, methods, constructors actual and formal parameters, inheritance, encapsulation, abstraction, static methods, array methods and more in Java.

OCPS Middle School Teacher | August 2017 - June 2021

- Robotics: Project-based learning with basic C language to run commands with robots.
- Electrical engineering: Project-based learning with circuits and electromagnetic projects.

EDUCATIONAL EXPERIENCE

University of Central Florida | July 2013 - May 2017

- Bachelor of Science in Interdisciplinary Studies
- Coursework: Physics, Mathematics, Philosophy

2U Full Stack Coding Boot Camp | April - September 2021

Rutgers University: AP Computer Science A (Java) Training July 2022

SKILLS SUMMARY

Front end: React, HTML5, CSS, Javascript, Python, REST APIs, Bootstrap, JQuery

Back End: MySQL, MongoDB, Sequelize, Mongoose, GraphQL, Nodejs

PERSONAL/INTERESTS

- Lead weekly bible studies and short-term small group mission trips to Sweden, Japan, and Colombia with a church.
- Play Ultimate Frisbee; UCF men's team and Orlando club team.