

Sean McLaughlan

(951) 807-7967 sean.s.mclaughlan@gmail.com [Portfolio](#) [LinkedIn](#) [Github](#)

Skills Full Stack Developer, Software Engineer, JavaScript ES6, Node, Express.js, Python, React, Redux, Flask, SQLAlchemy, HTML5, CSS3, Git, PostgreSQL, Databases, Test-Driven Development (TDD), Frontend, Backend

Projects

Chess Puzzler (JavaScript, Material-UI, React, Node, Express, HTML, CSS) [Live Site](#) | [Github](#)

Chess app for practicing and improving at the game through short puzzles.

- Created a chess program from scratch and used React and MaterialUI to allow user interaction on the client side.
- Designed an Express server to reply to user submitted moves with a responding move from the opposing side.
- Used tree data structure to hold all possible positions on board.
- Utilized depth first search to find the leaves for a board and discover the best possible move based on board scores.
- Generate new puzzles by creating randomized arrangement of pieces and testing for boards in which the player will be able to find a checkmate within a reasonable number of moves.

PlanetSide Stats (JavaScript, ReactJS, Node.js, HTML, CSS, Heroku) [Live Site](#) | [Github](#)

React application that visualizes stats and information from the game PlanetSide2.

- Implemented asynchronous JS with async-await to acquire and sort data from third party API without page refreshes for an uninterrupted user experience.
- Constructed graphs with Grommet using data calculated or requested JSON data from third party APIs to display user statistics in an easily understood visualization.
- Employed Auth0 which allows users to login quickly with accounts previously created on a commonly used service like Google.

Rare (JavaScript, HTML, CSS, Pug, NodeJS, Express, PostgreSQL database) [Live Site](#) | [Github](#)

Social journalism web application.

- Created secure user authentication using bcrypt password hashing to keep user information safe and provide user privacy.
- Designed an appealing, accessible UI with HTML and CSS that emphasizes site's content to improve user interface.
- Leveraged third party Markdown editor for articles and comments to provide the end user with familiar yet also easy-to-implement text creation.
- Integrated Pug to design page layout templates and JavaScript to modify HTML with data after AJAX fetch calls complete.

Experience

Metanoia - MetanoiaBooks.org

Frontend Engineer - Intern

Feb 2022 - Present

- Updating CSS and React code to improve app's design and functionality.

Savers

Store Associate

Jan 2016 - Sept 2016

- Provided customer service in welcoming customers, assessing their needs, and working the cash register.
- Accepted new donations, while organizing and preparing new items for sale.
- Updated and maintained store inventory to ensure the latest products were always on display.

Education

App Academy

2019 - 2020

Immersive 1000+ hours technical software development course with <3% acceptance rate. Areas of focus include full-stack web development, data structures and algorithms, software engineering, computer science fundamentals, test driven development / TDD, UX, Object Oriented Programming, OOP, SQL, APIs, REST, programming.

University of Central Missouri

Pursued BA in System's Administration

2010 - 2012

St Louis Community College

Associate's in General Studies

2007 - 2010