SHAWN BOYLE

(801) 541-6884   shawn.boyle01@gmail.com   **PORTFOLIO**   **GITHUB**   **LINKEDIN**

SKILLS   JavaScript / Python / React / Redux / Node.js / Flask / Express / SQLAlchemy / HTML5 / CSS3 / PostgreSQL / Docker

TECHNICAL PROJECT EXPERIENCE

PROGRAMMATIC | Group Project   Live Site | GitHub

*A developer's education application built with **React, Redux, Flask-SQLAlchemy, AWS S3, PostgreSQL, Docker***

- Engineered a visualization of **Dijkstra's Algorithm** by calculating the shortest path for a weighted graph of nodes, rendering the graph and edges between the nodes with a **CSS** grid and **React**, allowing for an animation of the traversal and shortest path for an enhanced **UI/UX.**
- Programmed a fluent search algorithm with **React** to match user queries with comprehensive filtering, returning results utilizing the **useLocation hook** for accurate DOM rendering.
- Developed a seamless, responsive discussion section for users to read feedback as well as engage in discussion by creating, editing, or deleting their comments utilizing **React** / **Redux** to manipulate the front-end dynamically and efficiently.

ZOOLODEX | Solo Project   Live Site | GitHub

*An educational nature and wildlife platform using **React, Redux, Flask-SQLAlchemy, AWS S3, PostgreSQL**, **Docker***

- Constructed a fluent backend **Flask-SQLAlchemy** server, handling comprehensive validations for user authentication and **AWS S3** uploads, then providing that data to the **PostgreSQL** database, wrapping all data for deployment with **Docker**.
- Designed a responsive navigation bar utilizing **React** and **CSS** to adjust styling conditionally when the Y coordinate scroll amount of the window object surpasses page image headers, providing a visually appealing **UI/UX.**
- Orchestrated a flipped grid to render user suggestions in a consistent, alternating display of user input by utilizing **React** and **CSS**, providing a visually engaging user experience.

CRESCENDO | Solo Project   Live Site | GitHub

*A spotify clone prioritizing music organization utilizing **React, Redux, Node.js, Express, Sequelize, AWS S3, PostgreSQL***

- Developed a relational database with 12 tables held by **PostgreSQL,** which I queried on the **Node.js** backend's **Express** server with the **Sequelize ORM**, allowing server data to have clarity and accessibility.
- Utilized **React hooks** to develop an intuitive, responsive library by conditionally rendering components by user input, resulting in a clean and navigable interface.
- Formed a cohesive **Redux** store through efficient **API** queries, cutting down on server load and resulting in a quick, optimal load time for data rendered on the frontend with **React**.

GOODGAMEZ | Group Project   Live Site | GitHub

*A GoodReads clone for video games using **JavaScript, Pug, Node.js, Express, Sequelize, PostgreSQL***

- Dynamically rendered user feedback by utilizing **AJAX** principles, building several scripts for sending **API** fetch calls to the **PostgreSQL** database to store the feedback, which is returned to the **Express** backend and rendered immediately with basic **JavaScript** and **HTML,** resulting in a responsive user experience.
- Implemented backend user authentication and user security with **Express** routes, custom validators, and security libraries, protecting against **CSRF** attacks and storing passwords with the **bcryptjs** hashing algorithm on signup.
- Ensured **DRY** and reusable code with **Pug** mixin fields for user auth forms, which are provided form data with **JavaScript**.

RELEVANT WORK EXPERIENCE

L1 Technical Support Engineer │ *Instructure*   May 2020 - Dec 2020

- Assisted students, teachers, and admins over the phone or live chat to resolve **80+ cases per 20 hour weeks** on the **Canvas** platform, by navigating a thorough troubleshooting process centralized around known bugs and common issues.
- Utilized several **Canvas** technologies and extensions to parse student activity data in **JSON**, replicate existing bugged environments for **testing and debugging, and assist in implementing external API's** into our system for teachers' utilization.
- Communicated with my team weekly to discuss goals and milestones, utilizing feedback to maximize performance.

EDUCATION

App Academy | *Full- Stack Web Development*   Oct 2021

- *Rigorous 1000-hour software development course with <3% acceptance rate*
- *Topics include: **TDD (Test Driven Development),** scalability, algorithms, **OOP (Object Oriented Programming)** , coding style, **REST**, security, single-page apps, pair programming, design patterns, and web development/coding best practices.*