

# SHAWN BOYLE

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[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**

- Integrated **Google Maps API** for users to explore geographical locations, having the coordinates be associated with seeded regions, soon allowing users to upload and view events with markers on the map.
- 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**.
- 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**.

### 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 the audio element to construct a feature-rich audio player, maintaining audio controls throughout the website with dynamic progress tracking.
- 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.*