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

RELEVANT WORK EXPERIENCE

Junior Software Engineer │ *Flapmax (Contract)*   Nov 2021 - Dec 2021
- Engineered optimization for **AI** models by using **FastAPI** for **RESTful** routing and model validation and **automating tests** on **Azure Virtual Machines,** resulting in improved throughput, latency, and memory footprint, while maintaining accuracy.
- Constructed an intuitive, comprehensive **frontend UI** through **React**, allowing clients to upload and optimize models, then displaying data through rendered charts and statistics, providing clients with clarifying data and an enhanced product.
- Integrated **Azure cloud storage** services for **PostgreSQL and MongoDB** providing **SQL** and **NoSQL** storage, allowing for efficient, flexible data management for our **backend API.**

L1 Technical Engineer │ *Instructure*   May 2020 - Dec 2020
- Assisted admins, teachers, and students over the phone and live chat to resolve **80+ tickets per 20 hour weeks** on the **Canvas** platform, by navigating a thorough troubleshooting process centralized around known bugs and common issues.
- Utilized several internal **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 virtual classrooms.
- Demonstrated strong communication skills through weekly team and one-on-one meetings by proactively discussing current bugs and outages, setting SMART goals, and requesting feedback to maximize performance.

TECHNICAL PROJECT EXPERIENCE

PROGRAMMATIC | *Group Project built with **React, Redux, Flask-SQLAlchemy, AWS S3, PostgreSQL, Docker***   Live Site | GitHub
- 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 using **React, Redux, Flask-SQLAlchemy, AWS S3, PostgreSQL***, **Docker**   Live Site | GitHub
- 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 utilizing **React, Redux, Node.js, Express, Sequelize, AWS S3, PostgreSQL***   Live Site | GitHub
- 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**.

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.*