SHAWN BOYLE

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

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

RELEVANT WORK EXPERIENCE

Project Development and Community Mentor   Jun 2022 - Sep 2024
- Developing an educational gaming platform for research and self-improvement to be open to public utilization.
- Actively participated in programming communities, offering guidance on DSA problems and software development choices.

Junior Front-End Developer │ *BrainStorm*   April 2022 - Jun 2022
- Spearheaded **Video.js** overhaul for our product that drastically improved the user experience by updating vanilla **JavaScript** functionality, as well as creating custom plugins.
- Created performance charts and visualized statistics for partners, allowing for improved visibility and partner satisfaction by using **Redux Toolkit, Redux Saga,** and **D3.js.**
- Practiced **SDLC/Scrum** methodology through 2 week sprints, delivering regular product updates to shareholders.
- Migrated **Enzyme tests** to **React Testing Library/Jest**, increasing **test coverage** and maintainability for a new product launch.

Junior Software Engineer │ *Flapmax (Contract)*   Nov 2021 - Dec 2021
- Engineered optimization for AI models via **FastAPI** for **RESTful** routes to validate the models, running **automated tests** on **Azure Virtual Machines** to measure and optimize output, resulting in improved throughput, latency, and memory footprint.
- 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 Support Engineer │ *Instructure*   May 2020 - Dec 2020
- Utilized internal Canvas technologies to troubleshoot **API** integrations into virtual classrooms by replicating bugged environments for testing and debugging, delivering swift and robust fixes to live environments**.**
- Assisted admins, teachers, and students on the Canvas platform by navigating a thorough troubleshooting process centralized around various bugs and common issues, resolving 80+ tickets per 20 hour weeks.

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 with **a React/CSS** grid, then animating 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 facilitated by modern **React hooks** for accurate **DOM** rendering.

CRESCENDO | *Solo Project utilizing* **React, Redux, Node.js, Express, Sequelize, AWS S3, PostgreSQL**   Live Site | GitHub
- Demonstrated extensive attention to detail by developing a Spotify clone, utilizing the audio element to construct a feature-rich, application wide audio player with several intuitive controls for a seamless experience.
- 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, accessibility, and quick responses.

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)**, **REST API's**, security, single-page apps, pair programming, coding style, design patterns, and web development best practices.

DoD 8570 IAT Level II │ *CompTIA Security+ CE Certification*   Exp 2027
University of Helsinki │ *Java Programming 1, Java Programming 2*   Present
Harvard University │ *CS50*   Present