

Brendan Downing

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[LinkedIn](#) [Github](#) [Portfolio](#)

SKILLS

Software Languages: Java, JavaScript, TypeScript, Node.js, Python, Tailwind.css, Socket.io, AWS S3, React.js, Express.js, Flask, Jinja, Pug, Redux, SQL, SQLAlchemy, Docker, Git, HTML5, CSS3, AGILE, REST, GIT, GITHUB

EXPERIENCE

Contributor - Open Source Project

Jul 2022 - Current

OpenBeta.io

- Implemented a dynamic sitemap.xml generator utilizing Typescript and GraphQL to increase web traffic and website exposure through Search Engine Optimization

PROJECT PORTFOLIO

WindVentory

[Live Site](#) | [Github](#)

Inventory tracking application utilizing Javascript, Python, React.js, Flask, Redux, and Socket.io. Windventory aims to decrease lost time, wasted materials, and the overall cost of large-scale blade repair jobs in the Wind Energy sector.

- Created website front-end, backend, and database schema from scratch with React.Js, Redux, Flask, Python and many other technologies to solve several common and costly problems that arose in my past job.
- Engineered back and front-end permissions for the applications 4 user types, together with a functional, user-friendly admin panel for the business owner allowing the admin user to manage teams, job sites and users of the application.
- Revamped UI/UX experience based on user feedback with Tailwind.css to make the application look more professional, and more user friendly.
- Used Google Places API alongside Leaflet.js to get recommended amenities nearest the users hotel, display them on a map, and render them in a list ultimately allowing the user to navigate to their chosen location using Google Maps.
- Masterminded a scalable PostgreSQL Database design with SQLAlchemy as the Object relational model to create an expandable, user-friendly business application.
- Leveraged API calls and jobsite locations with OpenweatherApi to render daily and weekly forecasts, wind speeds, and humidity for technicians using the application

Chatter

[Live Site](#) | [Github](#)

Slack clone developed with 3 other software engineers within a 1 week timeframe utilizing AWS S3, Javascript, React.js, Docker, Python, PostgreSQL, SQLAlchemy, Flask, and Socket.io.

- Utilized Socket.io to create several features with real-time, bi-directional dataflow, namely online/offline notifications, live chat, and channel updates.
- Architected the application dashboard layout, chat features, AWS setup, and Societ.io connections, in conjunction with the development of most of the application's back-end API routes.
- Responsible for managing group Kanban board, and keeping group members ontrack (morning standup) throughout the project until project completion

SoundCloud

[Live Site](#) | [Github](#)

SoundCloud clone developed within a 1 week timeframe utilizing AWS S3, Javascript, Express.js, React.js, PostgreSQL and Redux.

- Created dynamic, hand-made music player with Howler.js, and waveSurfer.js that allows the user to visualize the song that they are currently listening to, and seek to any section of the song they want to.
- Engineered the base application state and store from scratch, enabling the user to listen to songs while navigating to different pages of the website
- Implemented algorithm to sort top 8 most liked songs within the database at an efficiency of $O(n \log n)$.

OTHER EXPERIENCE

Beginner Lead Blade Repair Technician

Feb 2020 - May 2022

Rope Partner

- Purposefully took assignments for large / complicated blade repairs to expedite my learning / growth process as an emerging repair technician.
- Achieved high quality in my blade repairs, as acknowledged thru positive feedback of both blade services team and customer resulting from my technician partnering, attention to details and communication with clients
- Increased site wide technician productivity through development and maintenance of a ground support inventory tracking application using Google Appsheet in conjunction with several spreadsheets.

EDUCATION

App Academy - Immersive software development course, 20% passing rate with no deferrals (Winter/Spring 2022)

West Valley College - AA - Psychology (September 2017 - May 2019)