



Skills

Languages: JavaScript ES-6, NodeJS, HTML5, CSS3, SCSS, Bash Shell, SQL, MATLAB, Python, C++
Frameworks / Libraries: React, Redux, ExpressJS, Gatsby, NextJS, Ant-Design, SCSS, Loadash, Jest, Sequelize, GraphQL, AJAX, Mocha
Databases: PostgreSQL, MongoDB, SQLite3
Tools: Figma, Git, AWS S3, Heroku, Docker, Jira, Trello, Confluence, Netlify, Digital Ocean, VSCode, Google Analytics, Excel
Operating Systems: Linux, Windows (WSL), IOS

Projects

Gatsby-GraphQL-Blog

[Live Site](#) [GitHub](#)

JavaScript, React / Gatsby | GraphQL | SCSS | Loadash | Jamstack | Facebook Comments API | jQuery

A [web development blog](#) featuring convenient web development tools and interactive content

- Implemented 4 Gatsby page models and GraphQL schema to fetch markdown content and feed it into react components.
- Designed and integrated a set of convenient web-hosted [developer tools](#) and GUI interfaces.
- Added interactive content including comments, [video conferencing](#), [data-structure visualization](#), [games](#) and full text search.

[Autonomously Triggered Guitar Effects Platform](#)

[Live Site](#) [GitHub](#)

C++ | Python | MATLAB | PureData

[Platform](#) designed to analyze a time sequence of notes and autonomously trigger guitar effects at a predetermined point in the song

- Designed a platform to digitize a guitar signal and perform filtering before executing frequency & time domain analysis in order to track a current performance against pre-recorded performance.
- Implemented the Dynamic Time Warping algorithm in C++ and Python.
- Autonomously activated or adjusted guitar effects at multiple pre-designated sections of performance.

[Family Promise Service Tracker](#)

[Live Site](#) [GitHub](#)

React | ExpressJS | Figma | Okta

An [app](#) built to help local communities provide services to address the root causes of family homelessness

- Collaborated on state management using Redux to handle application state and middleware using redux-promise & redux-thunk.
- Built two graphic visuals of the user hierarchy and the scope of their permissions as well as maintained the team's [docs](#).
- Created Figma UI mockups for possible future developments, such as displaying metrics data and map pinpoint functionality.

Data Structures Playground

[Live Site](#) [GitHub](#)

jQuery | ExpressJS | Google Analytics | Algolia Full Text Search | Amazon S3

A [website](#) for visualizing and practicing data structures and algorithms in JavaScript & Python

- Implemented an repl.it backend to enable commenting using express and the fs module to write user comments to a storage.json file.
- Developed proprietary npm package to recursively walk the project directory structure and generate a [site navigation page](#).
- Created multiple embedded data structure visualizations that interact with user input and automated the generation and submission to (Google, Bing, and Yandex) of a [sitemap](#) on every build.

Experience

Product Development Engineer | Oct 2019 - Mar 2020

[Cembre](#), Edison, NJ

- Converted clients product needs into technical specs to be sent to the development team in Italy.
- Reorganized internal file server structure and conducted system integration and product demonstrations.
- Presided over internal and end user software trainings in addition to producing the corresponding documentation.
- Conducted electrical conductivity & tensile testing of electrical components and connectors.
- Served as the primary point of contact for troubleshooting railroad hardware and software in North America.

Education

[Lambda School](#), Full Stack Web Development

May 2020 - Nov 2021

Six-month immersive software development course with a focus on full stack web development. Over 2000 hours of work invested including class time, homework, and projects.



B.S. [Electrical Engineering](#), TCNJ, Ewing NJ

2014 – 2019

Knowledge of circuit boards, processors, chips, electronic equipment, and computer hardware and software, including applications and programming.

