

Skills

Languages:	JavaScript ES-6, NodeJS, HTML5, CSS3, SCSS, Bash Shell, SQL, MATLAB, Python, C++, Mathematica, JSON
Frameworks / Libraries:	React, Redux, ExpressJS, Gatsby, NextJS, Ant-Design, Loadash, Sequelize, GraphQL, AJAX, Jest, Mocha, jQuery, Electron
Databases:	PostgreSQL, MongoDB, SQLite3
Tools:	Figma, Adobe XD, GitHub, GitLab, Excel, VSCode, Sublime Text, Atom, Google Analytics, Bootstrap, Tailwind, FontAwesome
Tools (continued):	Docker, Firebase, Postman, Wordpress, Chrome Dev Tools, Jira, Trello, Confluence, Firebase, AWS S3, Okta, Algolia, Loadash
Hosting:	Heroku, Netlify, Vercel, Wordpress, Cloudfare, AWS, Firebase, Digital Ocean
Operating Systems:	Linux, Windows (WSL), IOS

Projects

Gatsby-GraphQL-Blog

Live Site | GitHub

Stack: JavaScript, React / Gatsby | GraphQL | SCSS | Lodash | Jamstack | Facebook Comments API | jQuery | Firebase

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

Stack: 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](#)

- Used pure data to filter a guitar signal before executing frequency domain analysis and implementing [custom built guitar effects](#).
- Implemented the Dynamic Time Warping algorithm in C++ and Python to generate a time agnostic measure of similarity between performances.
- Autonomously activated or adjusted guitar effects at multiple pre-designated sections of performance.

Data Structures [Interactive Teaching Tool](#)

Live Site | GitHub

Stack: 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.
- Automated the generation and submission of a [sitemap](#) to (Google, Bing, and Yandex) on every build.

Experience

Product Development Engineer | [Cembre, Edison, NJ](#) | Oct 2019 - Mar 2020

- Converted client’s 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 customer facing documentation.
- Conducted [electrical conductivity & tensile testing of electrical components](#) and presided over troubleshooting railroad hardware and software in North America.

[Family Promise](#) Service Tracker

Full Stack Web Development Intern | Remote | Sept 2021 - Present

Live Site | GitHub

Stack: React | Redux | ExpressJS | Figma | Okta | AWS

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.

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.


[1Certification Link](#)

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.


[2Curriculum link](#)

References & further work experience available upon request.