[Graphical user interface, website

Description automatically generated](https://bgoonz-blog.netlify.app/)[A picture containing text, businesscard, envelope

Description automatically generated](https://bgoonz.medium.com/)**[](https://github.com/bgoonz/)[Icon

Description automatically generated](https://www.instagram.com/bgoonz/)[linkedin
](https://www.linkedin.com/in/bryan-guner-046199128/)**[Icon

Description automatically generated](https://twitter.com/bgooonz) **Bryan Guner**

551-254-5505 | [bryan.guner@gmail.com](mailto:bryan.guner@gmail.com)

**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, Shopify

**Operating Systems**: Linux, Windows (WSL), IOS

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### Projects

**Gatsby-GraphQL-Blog** [**Live Site |**](https://bgoonz-blog.netlify.app/) [**GitHub**](https://github.com/bgoonz/BGOONZ_BLOG_2.0)

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

***A*** [*web development blog*](https://bgoonz-blog.netlify.app/) ***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](https://bgoonz-blog.netlify.app/docs/tools/) and GUI interfaces.
* Added interactive content including comments, [video conferencing](https://bgoonz-blog.netlify.app/docs/interact/video-chat/), [data-structure visualization](https://bgoonz-blog.netlify.app/docs/interact/other-sites/), [games](https://bgoonz-blog.netlify.app/docs/interact/) and full text search.

**Autonomously Triggered Guitar Effects Platform** [**Live Site**](https://bgoonz.github.io/Revamped-Automatic-Guitar-Effect-Triggering/) **|** [**GitHub**](https://github.com/bgoonz/Revamped-Automatic-Guitar-Effect-Triggering/tree/master/Triggered-Guitar-Effects-Platform)

**Stack:** *C++ | Python | MATLAB | PureData*

[*Platform*](https://bgoonz.github.io/Revamped-Automatic-Guitar-Effect-Triggering/SR%20Project%20II%20Presentation.pdf) ***designed to analyze a time sequence of notes and autonomously trigger guitar effects at*** [*a predetermined point in the song*](https://youtu.be/pRKjaprdWx4)

* Used pure data to filter a guitar signal before executing frequency domain analysis and implementing [custom built guitar effects.](https://youtu.be/krRVGoK9NcA)
* 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](https://ds-algo-official.netlify.app/)[**Live Site**](https://ds-algo-official.netlify.app/) **|** [**GitHub**](https://github.com/bgoonz/DS-ALGO-OFFICIAL)

**Stack:** *jQuery | ExpressJS | Google Analytics |Algolia Full Text Search | Amazon S3*

***A*** [*website*](https://youtu.be/onquAh1Bl0g) ***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](https://ds-algo-official.netlify.app/sitemap.html).
* Created multiple embedded data structure visualizations that interact with user input.
* Automated the generation and submission of a [sitemap](https://ds-algo-official.netlify.app/sitemap.xml) to (Google, Bing, and Yandex) on every build.

## Experience

**Product Development Engineer |** [*Cembre*](https://www.cembre.com/)***, Edison, NJ*** *|* **Oct 2019 - Mar 2020**

* Converted client’s product needs into [technical specs](https://www.cembre.com/family/details/5202) 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](https://drive.google.com/drive/folders/1USAQtiQ3jLm3fiRCxIm4TEkWGlq4fO6j?usp=sharing) and presided over troubleshooting railroad hardware and software in North America.

[Family Promise](https://familypromise.org/) **Service Tracker**

**Full Stack Web Development Intern | Remote | Sept 2021 - Present** [**Live Site |**](https://a.familypromiseservicetracker.dev/) [**GitHub**](https://github.com/Lambda-School-Labs/family-promise-service-tracker-fe-a)

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

***An*** [*app*](https://bryan-guner.gitbook.io/lambda-labs/navigation/roadmap) ***built to helps 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](https://bryan-guner.gitbook.io/my-docs/v/lambda-labs/).
* Created Figma UI mockups for possible future developments, such as displaying metrics data and map pinpoint functionality.

## Education

[Lambda School](https://www.credly.com/badges/bd145ba3-0f09-42fc-8d1f-a3bc4e0a46b4/public_url)**, *Full Stack Web Development* May 2020 - Nov 2021**

[](https://www.credly.com/badges/bd145ba3-0f09-42fc-8d1f-a3bc4e0a46b4/public_url)

Six-month immersive software development course with a focus on [full stack web development](https://gist.github.com/bgoonz/17494dab0042a6f70eda7929c08c878f). Over 2000 hours of work invested including class time, homework, and projects.

[1Certification Link](https://www.credly.com/badges/bd145ba3-0f09-42fc-8d1f-a3bc4e0a46b4/public_url)

**B.S.** [Electrical Engineering](https://electrical-computerengineering.tcnj.edu/)**, TCNJ, Ewing NJ 2014 – 2019**

**Course Work**

TCNJ: Digital Signal Processing, Embedded Systems, CS (C++ and MATLAB), Computer Architecture, Advanced Engineering Math 1 & 2, Modern Physics, Electromagnetics, Communication Systems, Industrial Controls, Neural Networks, RF/Microwave Engineering, Engineering Economy & Statistics.

**Proficient**: MATLAB, Excel, LT–Spice & P-Spice circuit simulation, LabVIEW, Pure Data, Logic

**Beginner:** Java, ARMv8 Assembly, Do-More PLC, Xilinx-CORE Generator IP, Ableton Live, Pro-Tools, Mathematica, Verilog Hardware Description, JavaScript, HTML, JavaScript Web API, FL Studio, Verilog Hardware Description Language, Xilinx-CORE Generator IP, AWR Microwave Office, AutoCAD, Adobe Creative Suite, C++

[](https://github.com/bgoonz/random-static-html-page-deploy/blob/master/ElectricalEngineeringCurriculum.pdf)

[2Curriculum link](https://github.com/bgoonz/random-static-html-page-deploy/blob/master/ElectricalEngineeringCurriculum.pdf)

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| --- | --- | --- | --- | --- |
| **References:** | | | | |
| **Name:** | **Company /Relationship** | **Phone** | **Email** | **LinkedIn** |
| **Ashalesh Tilawat** | **Family Promise / Supervisor & Release Manager** | **551-689-4865** | [ashtilawat23@gmail.com](mailto:ashtilawat23@gmail.com) |  |
| **Devin Jefferson** | **Supervisor / The Boys & girls Club of Hudson County** | **804-335-8237** | ? | <https://www.linkedin.com/in/devin-jefferson-capm-720159130/> |
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