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I am a musician, electrical engineer & web developer

Please note that this website is in development and is often broken!



netlify Building



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Python HTML CSS JavaScript React Node.js

Visual Studio Code Docker MongoDB PostgreSQL

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A Quick Guide To Big O



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Python Guide

Python has a built in help function that let's you see a description of the source code without having to navigate to it... "-SickNasty ... Autor Unknown".

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Guitar Effects Triggering w DTW

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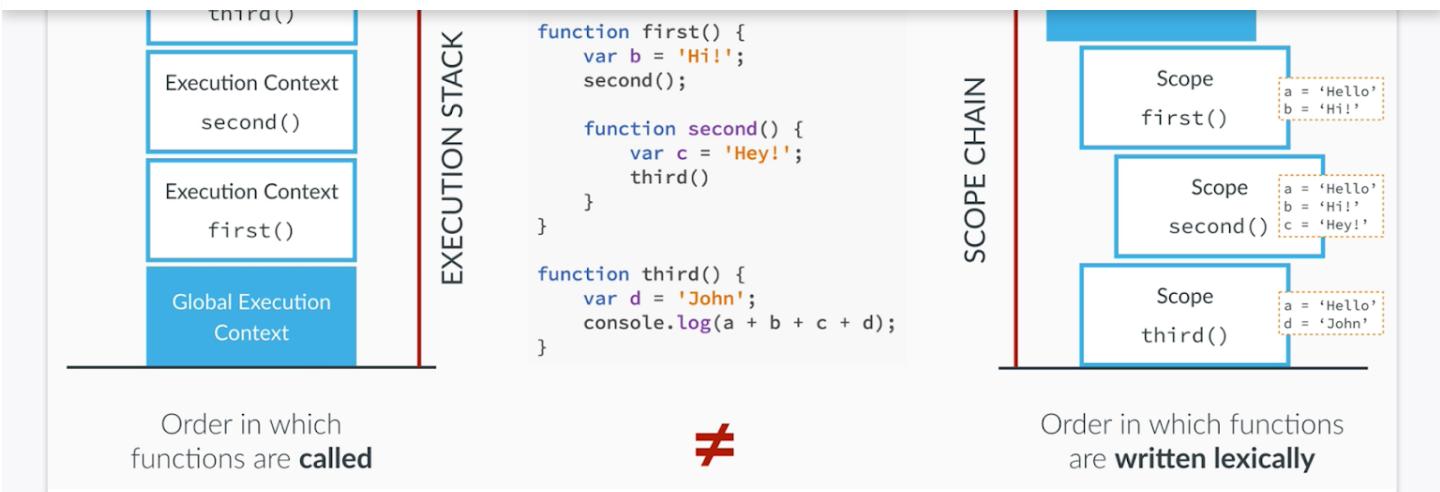


Beginner Guide React

As I learn to build web applications in React to capture the questions that a complete beginner would take for granted!

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Scope & Closure

Scope & Context in JS

The **scope** of a program in JavaScript is the set of variables that are available for use within the program.

Every idea needs a medium

Web Audio Daw

PostgreSQL Cheat Sheet, Everything You Need to View Post With VSCode

- Extensions & Resources, Super Simple Intro To HTML, Understanding Git... etc....

Current

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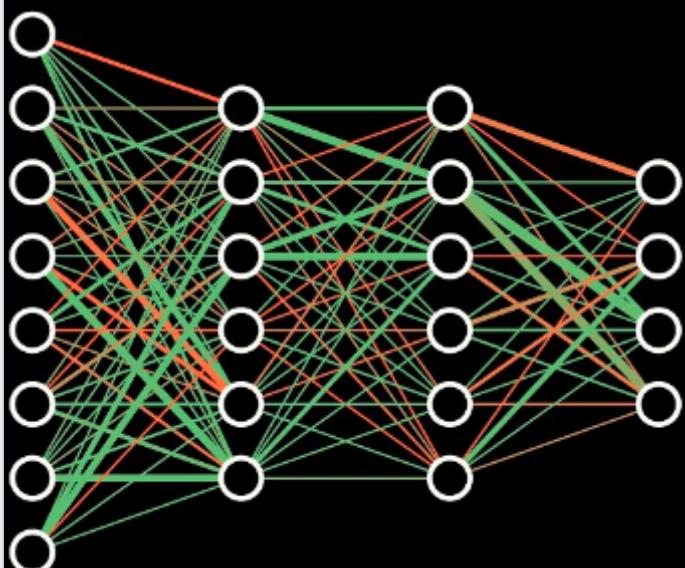


From github repositories to existential questions.

Full Text Search

Full Text Search

Neural Networks



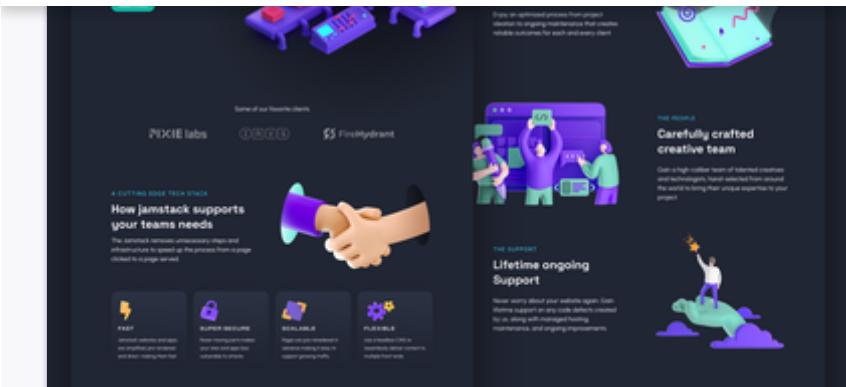
From the
ground up

Convolutional Neural Networks

Artificial neural networks, usually simply called neural networks, are computing systems vaguely inspired by the biological neural networks

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Jamstack

Why Jamstack Jamstack is the new standard architecture for the web. Using Git workflows and modern build tools, pre-rendered content is served to a CDN and made dynamic through APIs and serverless functions. Technologies in the stack include JavaScript frameworks, Static Site Generators, Headless CMSs, and CDNs.

```
const one = () => Promise.resolve('One!')

async function myFunc() {
  console.log('In function!')
  const res = await one()
  console.log(res)
}

console.log('Before function!')
myFunc();
console.log('After function!')
```

node

Before function!
In function!

The diagram illustrates the execution flow in Node.js:

- CALL STACK:** Represented by a large green-outlined rectangle at the top.
- EVENT LOOP:** Represented by a blue-outlined rounded rectangle below the stack.
- MICROTASK QUEUE:** Represented by a yellow-outlined rounded rectangle at the bottom.
- Arrows indicate the flow from the stack down to the event loop, and from the event loop down to the microtask queue.

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Asynchronous JavaScript

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NJ Devils

New Jersey Devils Hockey Team

(Hockey in general)

Team identity



The old green style jerseys used from 1982 to 1992
The jerseys used from 1992 to 2017
Sean Avery of the New York Rangers attempts to distract Brodeur during the 2008

Stanley Cup playoffs. The playoff series was the fifth to feature the Devils-Rangers rivalry.

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ITER Fusion Reactor Experiment (Southern France)

doughnut-shaped 'tokamak' design — the world's most developed approach to fusion energy. It is the first time since 1997 that researchers have done experiments in a tokamak with any significant amount of tritium.

Resume & Portfolio

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Frameworks / Libraries:	React, Redux, ExpressJS, Gatsby, NextJS, Ant-Design, Lodash, Sequelize, GraphQL, JAVA, 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, Cloudflare, 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

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

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

An app 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](#).
- 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](#)

Resume

[View In One Drive](#)

lorem-ipsum

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Phrase matcher

Press the button then say the phrase to test the recognition.

Latest & Greatest

What I've been working on lately:
Web Dev Utility Tools

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Bryan Guner Cheat Sheet Collection

<https://bryan-guner.gitbook.io/my-docs/v/cheat-sheets/>

GITBOOK VERSION



Search

CHEAT SHEETS HOME

The screenshot shows a GitBook interface for 'My Docs'. On the left, a sidebar lists categories like 'Cheat Sheets', 'Chat.js', 'Canvas', etc. The main content area displays several command-line examples:

- Show how long the system has been running + load**
cat /etc/redhat-release
uptime
- Show system host name**
hostname
- Display all local IP addresses of the host.**
hostname -l
- Show system reboot history**
last reboot
- Show the current date and time**
date

On the right, a sidebar provides links for system monitoring and hardware information. At the bottom, there's a 'Follow' button with social media icons and a 'Powered By GitBook' logo.

MV CHEAT SHEETS



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Tool Showcase

<https://bgoonz-blog.netlify.app/docs/tools/>



Web Audio DAW

Go To Web

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my web development articles

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Audio

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Career

Reference materials and descriptions of fundamental concepts as well as visua

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Content

In this section you'll learn how to add syntax highlighting, examples, callouts and much more.

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Data Structures

In this section you'll learn how to add syntax highlighting, examples, callouts and much more.

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Docs

Documentation

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In this section you'll find commonly asked questions regarding the Libris theme. If you have questions, don't hesitate to ask us directly.

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Overflow

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Projects

We'd love it if you participate in the Web-Dev-Hubcommunity. Find out how to get connected.

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Python

Python

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In this section you'll find basic information about Web-Dev-Hub and how to use it.

Learn More →

React

To make it easy to write documentation in plain Markdown, most React are styled using Markdown elements with few additional CSS classes.

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Reference

helpful reference guides

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Tools

See some interesting tools developed by the Web-Dev-Hubcommunity to help automate parts of your workflow.

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Tutorials

Walkthroughs of various development activities and skills

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