BUILDING MY PORTFOLIO WEBSITE WITH **NEXT.JS**

11/20/2020 - Henry Unite

It's time for a new portfolio website! This time I decided to use Next.js to generate my static site with these principles in mind:

- 1. Take a **README** markdown file of my resume and convert it to a static homepage
- 2. Use **semantic HTML** with global styles for easy customization 3. Adding <u>next pages</u> will append links to the homepage

README CONVERSION

The core concepts of this project are built on the foundation of these methods:

- 1. Bootstrap a create-next-app
- 2. Use the **getStaticProps** to generate HTML from the README with **showdown** 3. Use dangerouslySetInnerHTML for SEO optimization
- **GETTING STARTED WITH NEXT**

We can start bootstrapping our application using the **create-next-app** npm script.

\$ npx create-next-app

```
GENERATING HTML FROM README
```

Using getStaticProps and showdown, we can generate some HTML to use for our site generation.

```
export async function getStaticProps() {
 const path = require('path');
 const fs = require('fs');
 const { Converter } = require('showdown');
 const converter = new Converter();
 function parseREADME() {
   return new Promise((res) => {
     fs.readFile(path.join(process.cwd(), 'README.md'), (err, data) => {
       const readme = data.toString();
       const html = converter.makeHtml(pReadme);
       res(html);
     });
   });
 const html = await parseREADME();
 return {
   props: { html },
 };
```

SERVING HTML OPTIMIZED FOR SEO

The key to using dangerouslySetInnerHTML with next.js is that we want to ensure the content of our HTML is served as static content for SEO.

```
return (
   <div>
      <Head>
       <title> {title} </title>
       <link rel="icon" href="/favicon.ico" />
     </Head>
      <main dangerouslySetInnerHTML={{ __html: html }} />
      <footer>
     </footer>
   </div>
 );
```

```
SEMANTIC STYLING
After your content is being injected in the page, you should be staring at a wall of black and white text like this:
    Experience
    Striven, Lumberton NJ - Software Developer
    MAY 2019 - NOVEMBER 2020

    Full stack .NET framework and SQL server application development

    Develop client and server controls for user interface

        · Research new technologies and integration design for development with existing systems
    Software Projects
    Portfolio - https://unitehenry.com/
    Visit for additional information and software career overview
    Striven Editor - <a href="https://github.com/striven-erp/striven-editor">https://github.com/striven-erp/striven-editor</a>
    Open source contributor and developer of custom built WYSIWYG editor for the Striven ERP portal
    Hackathons - <a href="https://devpost.com/unitehenry">https://devpost.com/unitehenry</a>
    Passionate "hacker" and enthusiast for writing code and developing minimal viable products under a weekend span of time
    Education
    Rowan College of South Jersey, Vineland NJ - MAY 2020
    Associate in Science, Computer Science Degree
```

Using the global.css file provided by next, we can globally style semantic elements like this:

```
/* CSS Styles */
  main {
       /* CSS Styles */
  main hr {
       /* CSS Styles */
  main strong {
       /* CSS Styles */
  main p {
       /* CSS Styles */
  main h1, main h2, main h3, main h4, main h5, main h6 {
       /* CSS Styles */
  main ul, main ol {
       /* CSS Styles */
  main li {
       /* CSS Styles */
  main a {
       /* CSS Styles */
PAGE EXTENSIBILITY
```

directory and a navigation link be appended to the homepage. Taking advantage of the the getStaticProps function, we can use node to read the directory, exclude unrelated files, and generate links in our homepage.

function getPages() {

my DEV posts.

// CONFIG['pageExcludes'] = ['app', 'api', 'index']

One of the design concepts I wanted to implement was the idea that you could add a next page in the pages

return new Promise((res) => { fs.readdir(path.join(process.cwd(), 'pages'), (err, data) => { const pageFiles = data.filter((f) => { return !CONFIG['pageExcludes'].filter((ex) => f.includes(ex)).pop(); });

```
res(pageFiles.map((p) => p.replace('.js', '')));
    });
 });
const html = await parseREADME();
const pages = await getPages();
return {
 props: { html, pages },
    <footer>
      <div id="pages">
        { pages.map((p) => p ? <a key={p} href={\^/${p}\^}>{ p }</a> : null }
      </div>
    </footer>
```

page for static site generation. Again, taking advantage of the getStaticProps hook. // pages/blog.js

return new Promise(async (res) => {

const req = await axios({

GATHERING MY BLOG POST DATA

export async function getStaticProps() { const axios = require('axios'); function getArticle() {

With this feature, I can now create unique CMS pages to extend my static site. Let's create a blog page to fetch

I'll be using the axios library to make a request to the DEV api, gather my posts data, and send those props to the

```
method: 'GET',
     url: 'https://dev.to/api/articles?username=unitehenry'
   if(req['data']) {
     try {
        const data = req['data'];
        res(data.map((article) => {
         return {
           title: article['title'],
           description: article['description'],
           url: article['url'],
           date: article['created at'],
           image: article['cover image']
         };
       }));
     } catch(e) {
       res([]);
   } else {
     res([]);
 });
const articles = await getArticle();
return {
 props: { articles }
      <section>
      { (articles.length === 0) && No Blog Posts}
        articles.map(({ title, description, date, url, image }) => {
         return (
            <article key={title} className={style['blog-article']}>
              { image ? <img src={image} /> : null}
             <div className={style['blog-article-content']}>
```

```
<h2>{ title }</h2>
        { description }
        <a title="Read Article" className={style['blog-button']} href={url} target=" blank">Read Article
       </div>
     </article>
   );
 })
</section>
                      PHOTOS DEV LINKEDIN GITHUB EMAIL RESUME
                BLOG
```

BOOTSTRAPPING OF MY REPOSITORY If you want to see the source code or fork this repo and generate your own static site, I've created a GitHub repos itory and documented in detail how to customize the code for your own static portfolio site.

GITHUB TRICK

```
As a side note, there is a GitHub trick that will take your README and display it on your GitHub profile as well.
                                                                Repositories 22
                                                                                     Projects
                                                  ☑ unitehenry/README.md
                                                                                                                                             Send feedback
                                                  Henry Unite
                                                  Resume: https://unitehenry.com/resume.pdf
                                                  Email: henry@unitehenry.com
                                                  GitHub: https://github.com/unitehenry
                                                  LinkedIn: henry@unitehenry.com
        Henry Unite
                                                  Blog: https://dev.to/unitehenry
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    Philadelphia, Pennsylvania

    Full stack .NET framework and SQL server application development

    Develop client and server controls for user interface

∂ https://unitehenry.com/

    Research new technologies and integration design for development with existing systems
```