

# Digital Portfolio

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**Abstract**—A digital portfolio is a great way for hiring managers and fellow professionals to gauge potential hires and their skills accurately. The application that I am developing, the Digital Portfolio website, was created with this in mind. This website allows viewers to view my objective statement, my resume, and a contact form to send me a message received through my school email. Viewers can also click other links, leading to professional profiles, such as LinkedIn and Github. Additionally, the website provides a sleek professional look with an expandable menu bar and dark theme. There are also visually appealing waves on the home page, providing even more visual appeal.

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## 1. Introduction

The idea of creating a digital portfolio site came from my desire to develop and showcase my skills as a soon-graduating student. Having a sleek professional look, along with providing easy access to an objective statement, detailed resume, and a contact form for reaching out was essential.

The website allows users to view various pages and provides links to other professional profiles, such as LinkedIn and Github. It allows users to navigate various pages and links using an expandable left-side navigation bar with easily discernable icons.

The initial page, or home page shows some background information and an objective statement along with a professional picture. This allows the viewer to gauge a brief idea of my goals and who I am as a person.

The resume link enables viewers to delve deeper into my professional background, projects, and contributions in school and the industry. It also allows the viewer to view my resume without downloading it, as it is embedded into the page.

This removes any fear that recruiters have of downloading unknown files.

Another page is the contact page. This page allows viewers to send a message to my school email by simply adding their information and a message body, and then clicking submit. After submitting, the page leads you to a confirmation page served by an email API. The form also allows the viewer to clear the form of any information and start over.

Lastly, there is a link to view a GitHub page. There, recruiters or professionals can see any projects I have completed or have worked on in the past.

There are no login or account features for this site because it seemed unappealing for a professional to login to view a resume or professional profile. Without that feature, and the easily accessible contact form, recruiters and professionals can easily view my skills and get in contact with me.

In essence, the Digital Portfolio website aims to provide an informative experience, giving

background on myself, and highlighting my skills, accomplishments, and potential contributions to prospective opportunities.

## 2. Background

Several websites currently exist for digital portfolios:

1. *Journo Portfolio* [1].
2. *Muck Rack* [2].
3. *WordPress* [3].
4. *Clippings.me* [4].
5. *Behance* [5].
6. *Adobe Portfolio* [6].
7. *Canva* [7].
8. *Dunked* [8].
9. *Portfoliobox* [9].

WordPress is the only one from this list that I have prior experience with. Rather than a simple portfolio-building site, it is a tool that can be used to create a variety of websites. Its tools make it easy to build a site, even when you aren't a developer. My site instead provides an easy framework. Many of the personal information or files included in the file can be simply replaced and catered to display anyone's portfolio.

## 3. Proposed Application

The digital portfolio site was developed in mostly HTML and CSS using the Visual Studio Code source code editor. It also uses some Bootstrap, Boxicons for free icons, Javascript, and an Email API called web3forms[10]. I also utilized the Live Server extension on Visual Studio Code to view the site as a live server.

There are various Javascript files created to make this site function. One of the script files created is script.js. This file allows the three-lined menu button to function properly, toggling the

appropriate classes to display the icon labels when expanded and hide them when not.

The first page that I want to discuss is the Home page or *Index.html*. Index.html contains the menu html along with the page contents. The page contents contain a card container created from scratch. This card container included a profile picture along with two headings and an objective statement.

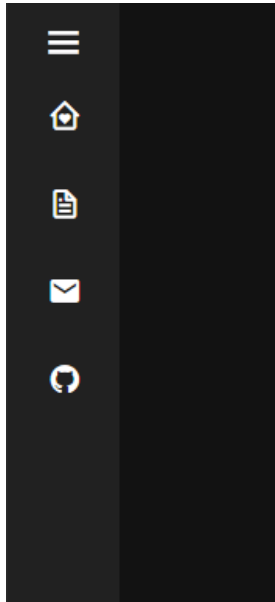
The contact page, or contact.html, contains a page-centered container prompting the visitor to include their information to send a message. This contact form utilizes an email API called web3forms[10]. The message requires input at least 5 characters long to prevent a blank message from being sent. The phone input also requires a specific format, and each of the marked boxes requires an input. If any of the criteria, such as the message body being more than 5 characters, the text box will display a message. The web3forms API is employed by a web link and POST method. When the criteria are satisfied and the submit button is clicked, it reroutes to a success page provided by the API, also providing a link to go back to the previous page.

The page also provides a reset function detailed in contactform.js. This allows the user to reset the form in case of mistakes made, or any other reason.

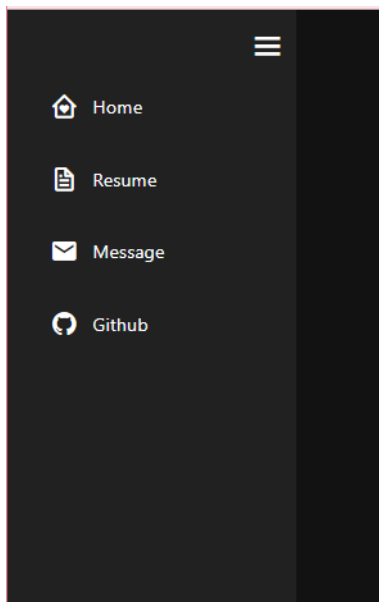
The style.css folder contains the styling for the entire site. It creates the theme of the site and makes the contents of the site adjustable to the window size. It also contains the animation for the waves displayed in the container on the home page. It animates the initial points of the wave (established in the home page HTML Index.html) under 0% and then uses increments of 25% to create a smooth wave. There are 4 waves, all with half opacity, which is established in the HTML code. In the CSS, the 3 children waves are established and all have a second delay after each other. This makes the waves not overlap completely, since they follow the same keyframes.

## 4. Experimental Results

The first feature to examine is the side menu bar 1.1, 1.2. It contains various buttons, the top one being an expand button, and the rest being links.



**Figure 1.1.** Image of the menu bar featured on each page. The top button (or hamburger) is the expandable button. When clicked, it expands to what you see in Figure 1.2.



**Figure 1.2.** Image of the expanded menu bar. The text labels are displayed when expanded. The site content also adjusts in size when it is.

The second feature to examine is the contact page 2.1, 2.2, 2.3, 2.4.

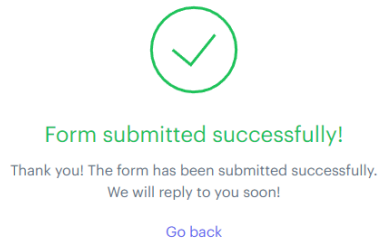
**Figure 2.1.** Image of the contact form. Shows basic input validation: The phone number is entered in the wrong format, so a tooltip appears. The same goes for if the necessary information is not filled.



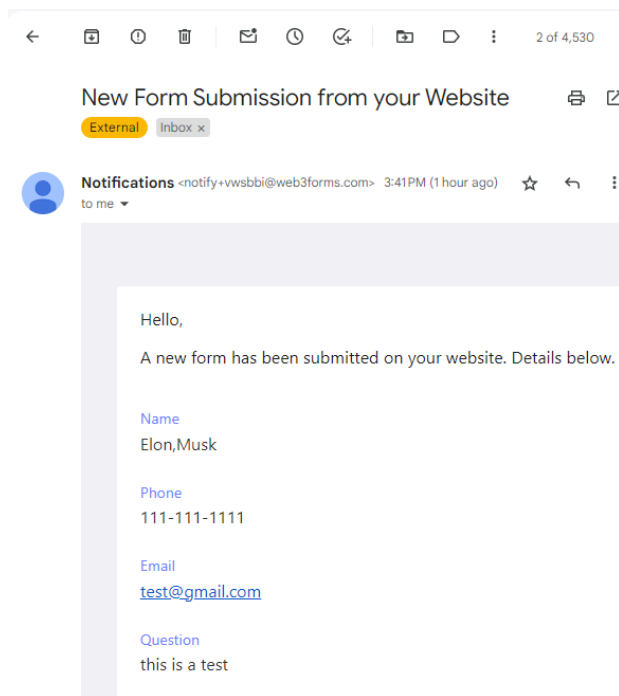
**Figure 2.2.** Messages such as this appear when the correct criteria are not filled in or are not in the correct format.

Once any errors are corrected in the form, the user can click the “Submit” button to send a message.

After the message is sent, a confirmation page will be displayed. On the confirmation page, you may press “go back” to go back to the messages page.



**Figure 1.3.** Messages such as this appear when the correct criteria are not filled in or are not in the correct format.



**Figure 1.4.** Shows that the information has been sent along with the message body.

After the message is sent, a confirmation page will be displayed. On the confirmation page, you may press “go back” to go back to the messages page.

Lastly, there is another feature. This is the waves displayed on the home page of the site. Figure 3.1 displays the visuals of the waves and their animation.



**Figure 3.1.** Messages such as this appear when the correct criteria are not filled in or are not in the correct format.

## 5. Conclusion

I worked on the development of this website without a partner. I used examples from my Web Application Engineering course as well as examples online. The examples helped me develop my javascript skills, as I had previously had a lot of trouble.

In the future, I may like to add another page detailing the extent of my projects. I do not have many projects at the moment, so there would not be much content. Hopefully, when I do, I will have an interactive gallery and include snippets of reports on each one.

I would also like to include a night and day button to change the colors of the page. This would be at the top right corner of the website and allow the viewer to dynamically change the site colors to light and dark mode.

## 6. References

- [1] <https://www.journoportfolio.com/>
- [2] <https://muckrack.com/>
- [3] [wordpress.com](https://wordpress.com)
- [4] [clippings.me](https://clippings.me)
- [5] <https://www.behance.net/>
- [6] <https://portfolio.adobe.com/>

- [7] <https://www.canva.com/website-builder/templates/>
- [8] <https://dunked.com/>
- [9] <https://www.portfoliobox.net/>
- [10] <https://web3forms.com/platforms/html-contact-form>