

# **CS563 - Intro to Web Development**

## **Final Project - Personal portfolio website**

### **Journal**

**By - Shishir Gururaj**

### **GitHub repository and deployed site links**

Github repository - <https://github.com/sgraj80/sgururaj>

Deployed site URL - <https://sgraj80.github.io/>

### **Website design and development timeline**

By the time I was done with creating my personal website, two weeks had gone by. I spent the first week deciding on how my website should look and which techniques to use for the same. I created a public repository with my OdinID. Once I was done deciding on the design, which was a single page website with links to different sections on the navbar and during the second week, I finished my proper working code and pushed code on to the GitHub repository mostly section by section, followed by quite a few minor tweaks and changes with respect to styling and semantics and responsive design using media queries which served both portrait and landscape orientations. Finally, I updated my readme file, ran audits, validation checks and launched my portfolio site.

### **Technologies utilized for implementation**

This site was built using HTML, CSS, and JavaScript and was hosted on GitHub Pages.

## **Website structure and associated implementation**

### **Files used:**

HTML - index.html

CSS - script.css

JavaScript - script.js

Images - Shishir\_Gururaj.jpg and sn.jpg

Readme - README.md

### **Structure:**

- A welcome message
- A navbar
- Experience section
- Projects section
- Contact form
- Social media profiles
- Scroll-to-top button
- Footer

### **Navbar:**

My navbar was created using HTML and CSS. Initially, I used my navbar code from one of the Homeworks and made some minor styling changes. I utilized nav, ul and li tags for different sections of the portfolio: About Me, My Experience, Projects, Contact Me and Social Media.

### **About:**

I utilized a portrait picture for my website as well as a welcome image. Then I wrote a professional introduction for myself using div and paragraph tags. In this section, I rehashed my introduction from Homework assignments and discussions. Then I used the Image tag to display a photo from my homework assignment. For these elements, I used CSS styling and media queries for responsiveness.

## **Experience:**

The general structure for this section is designation/role followed by the company name, followed by the period of time at the company, which in turn is followed by a brief description of achievements in the mentioned role. I had included my two work experiences, including the most recent, in this section. The section contains two cards which house two distinct experiences from my professional career. CSS was used for card styling, and HTML was used for content which included h3 and p. I admit that more work could've gone into the styling with respect to the designation, description and addition of skills. I'll be implementing those in the future.

## **Projects:**

The general structure for this section is a project title followed by the project description which in turn is followed by a button with a link which redirects the user to that particular project's GitHub repository. The section contains three cards which house three distinct projects from my other undergrad. There are also GitHub links to the project. CSS was used for card styling, and HTML was used for content which included h2, div, h3 and p and anchor tags. I admit that more work could've gone into the styling with respect to the project title, description and addition of timelines. I'll be implementing those in the future.

## **Contact:**

I repurposed a contact form from one of my homework assignments. I utilized form, h2, input, textarea and button tags for the form design. I used text input types for the name and message, and one email input type for name, message and email respectively. I also included appropriate input placeholders and used labels for better selection. I used a button to submit which enabled form submission. I used JavaScript code from my homework to validate the form input and display it on the console in dev tools when the submit button was clicked. Additionally I incorporated a feature which recorded the form submission time and displayed the same. Future work is planned on form behavior

including addition of a reset button and acknowledgement of submission via confirmation email. I've yet to figure out Node for the same.

### **Scroll-to-top button:**

I had come across a provision online, which allowed the user to move to the top of the webpage if the user were at a different location of the webpage, other than at the top. I wanted to incorporate the same into my website. I found a great resource online which helped me implement the same using js with the help of a button with appropriate styling including the text "Go to Top".

### **Social profiles:**

I had come across a provision online, which allowed the user to link their social media profiles. I wanted to incorporate the same into my website. I found a great resource online which helped me implement the same using bootstrap. I included LinkedIn and Instagram profiles using the same. I utilized anchor tags for icon redirection. I ran into trouble with HTML validation as I had used sections without headings here, which I was able to rectify by switching it with the div tag.

## **Deployment**

Right off the bat, I was concerned about deployment, to be totally honest. I wasn't well versed with Github pages. But I was able to pull through in the end. I had to create another repository for deployment as I had already started working on the code by the time I realized that GitHub pages had a naming convention for deployment repositories. I had to import my code repository into the deployment repository.

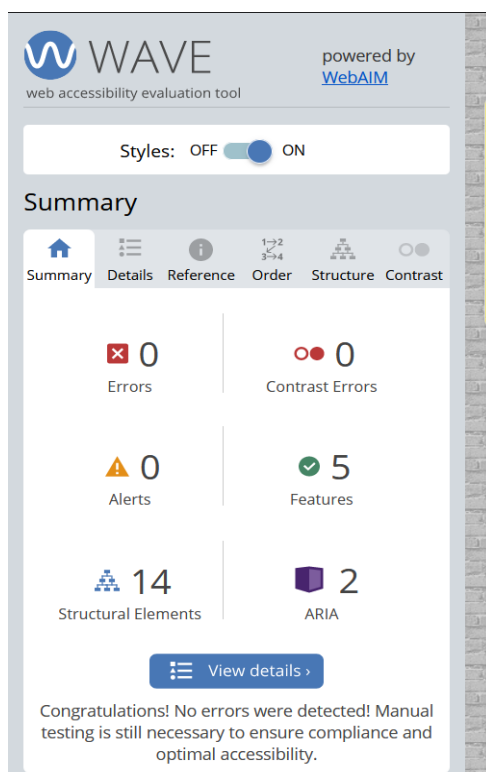
## **Future work**

I intend to keep my website up to date with my most recent projects and I've mentioned updates and changes in the aforementioned individual sections. In the long run, after I'm much more familiar with bootstrap, I intend to rework my complete website using

much of bootstrap instead of major CSS styling. I also intend to incorporate some animations as I acquire experience in web programming with bootstrap and JavaScript.

## Audits

I ran WAVE and lighthouse audits for my portfolio. The results of the audits were pretty encouraging as the WAVE audit didn't return much errors or alerts initially. Wave audits had some header and contrast issues initially, But it suggested some good practices, which I took heed of. The lighthouse audit returned scores of 100 each for Performance, Accessibility and Best practices and received a score of 90 for Search engine optimizations (SEO). I was content with the results of both audits.



http://127.0.0.1:5501/index.html#about

100

100

100

90

PWA

Performance
Accessibility
Best Practices
SEO
PWA

100

Performance

Values are estimated and may vary. The [performance score is calculated](#) directly from these metrics. [See calculator.](#)

▲ 0–49

■ 50–89

● 90–100

About Me

Earnest, highly-motivated individual who likes to seek out new challenges, is determined to grow professionally through continuous participation and learning. Looking for a riveting role in an esteemed organization that would help bring out the best in me.

Experience

Engineer Trainee

Graduate Engineer Trainee

Go to top

## Validation

### CSS:

W3C CSS Validator results for TextArea (CSS level 3 + SVG)

**Congratulations! No Error Found.**

This document validates as [CSS level 3 + SVG](#) !

To show your readers that you've taken the care to create an interoperable Web page, you may display this icon on any page that validates. Here is the XHTML you could use to add this icon to your Web page:

```

<p>
  <a href="http://jigsaw.w3.org/css-validator/check/referer">
    
    </a>
  </p>

```

```

<p>
  <a href="http://jigsaw.w3.org/css-validator/check/referer">
    
    </a>
  </p>

```

(close the img tag with > instead of /> if using HTML <= 4.01)



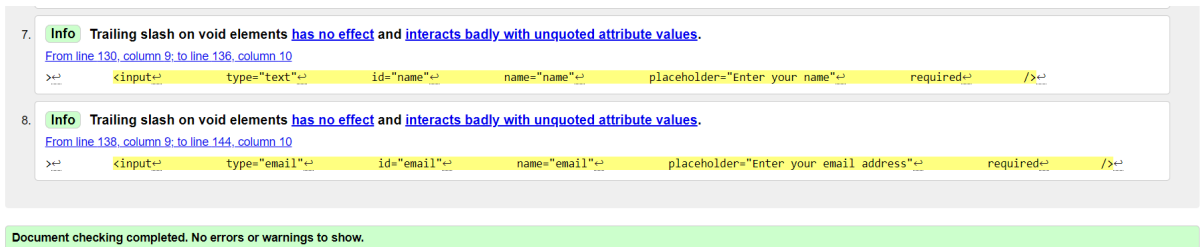
Interested in "developing" your developer skills? In W3C's hands-on Professional Certificate Program, learn how to code the right way by creating Web sites and apps that use the latest Web standards. [Find out more!](#)

[Donate](#) and help us build better tools for a better web.

If you like, you can download a copy of this image to keep in your local web directory, and change the XHTML fragment above to reference your local image rather than the one on this server.

If you would like to create a link to this page (i.e., this validation result) to make it easier to re-validate this page in the future or to allow others to validate your page, the URI is:

## HTML:



7. **Info** Trailing slash on void elements [has no effect](#) and [interacts badly with unquoted attribute values](#).  
From line 130, column 9; to line 136, column 10  
<input type="text" id="name" name="name" placeholder="Enter your name" required />

8. **Info** Trailing slash on void elements [has no effect](#) and [interacts badly with unquoted attribute values](#).  
From line 138, column 9; to line 144, column 10  
<input type="email" id="email" name="email" placeholder="Enter your email address" required />

Document checking completed. No errors or warnings to show.

## Conclusion

This project certainly improved my confidence and helped me enhance my HTML, CSS, and JavaScript skills. I learnt how to incorporate CSS styling more efficiently, and I believe I was able to do it better than in my homework. I was able to handle responsiveness and accessibility issues well but found it tricky at times, especially portrait orientation design. I also learned how to partition a web page efficiently and position all of the pieces appropriately. After observing the website's responsiveness and accessibility, I can confidently claim that I have a pretty good understanding of the general process of web design and development and will utilize the same into the future web development projects I work on.

## References

<https://www.w3schools.com/html/>

[https://www.w3schools.com/html/html\\_css.asp](https://www.w3schools.com/html/html_css.asp)

[https://www.w3schools.com/howto/howto\\_css\\_smooth\\_scroll.asp](https://www.w3schools.com/howto/howto_css_smooth_scroll.asp)

[https://www.w3schools.com/howto/howto\\_js\\_scroll\\_to\\_top.asp](https://www.w3schools.com/howto/howto_js_scroll_to_top.asp)

<https://www.transparenttextures.com/>

[https://www.w3schools.com/howto/tryit.asp?filename=tryhow\\_css\\_social\\_media\\_buttons](https://www.w3schools.com/howto/tryit.asp?filename=tryhow_css_social_media_buttons)