

Individual Final Project

Sahil Bhagat

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1 Introduction

This is the portfolio of Sahil Bhagat comprising achievements in software engineering during his work at Gisma University of Applied Sciences. This portfolio is the point of entry for technical abilities initiatives and career goals. In the field of software engineering efficiency encompasses programming languages Java, Python, and C++, as well as HTML, CSS, and JavaScript as the web development language. These skills form the basis of the capacity to think and to design and execute novel conceptual strategies in the information age. The analysis of contexts is well-structured pointing at educational activities and aims while the deeds emphasize problem-solving skills and an original approach to software design. Every one of them is proof of the technical knowledge and the willingness to expand the expertise in the newly introduced technologies. However, equally relevant experience can be acquired from internships as well as collaborations in actual software development. These experiences enrich the portfolios of skills and enhance comprehension of the basic concept of teamwork and project implementation in industrial profiles. Move through the work to find out about specific projects and the schooling and plans of individuals. Specifically, for potential employers, collaborators, or any software engineering enthusiasts, the portfolio prompts interaction with passion and a forum for discussing the making of change through software applications. Welcome and as you will see, connection scenarios are on the horizon.

2 Design Elaboration

The layout and structure of Sahil Bhagat's portfolio website is to make it professional, neat, simple, and responsive to meet the objectives of highlighting the skills, work samples, and accomplishments of the designer. The first and foremost aim is to give convenient navigation for any kind of visitor, which can be a potential employer or a collaborator or anything like that; secondly, it should represent Sahil Dhanjal's ability to work with the web applications, etc.

2.1 Visual Design

Visually, the website follows a simplistic layout and it mostly features tones of white, grey, and black. This decision guarantees the relative uniqueness of the content as well as ensures the site remains neat and professionally designed. The Arial font has been chosen for readability purposes; thus, repeated use of the same font adds to the consistent look of the site. It uses the overall layout that is a header, a navigation bar, the main content, and the footer sections to give the users a familiar feel of the website.

2.2 Navigation

Ergo, the distinct navigation bar that runs across the page has Home, About, Projects, Resume, and Contact options. It is implemented using a flexbox layout

to achieve responsiveness to the different interfaces of various devices. In the case of using the site on a small screen, the layout of the navigation changes its position and becomes vertical to stay convenient on a mobile device. This design decision is essential for accessibility and guarantees all the visitors to find the necessary data using any device.

2.3 Content Layout

As a result, each page of the created portfolio contains a defined hierarchy.

2.3.1 Home Page

Touches base with Sahil with a small welcome note and Sr. Professional profile picture. It introduces himself, showing his readers the kind of person they are dealing with and a sneak peek at the rest of the site.

2.3.2 About Page

The one shared here contains a longer biography that also includes the fields of study in college as well as career focus. To apply a more personal caveat, it also includes a profile picture for the user.

2.3.3 Projects Page

Card-based design is used to propose individual projects. To that, it is integrated into each of the cards the title of a project, its description, as well as a link to the corresponding repository on GitHub. This is the logical and aesthetic structure of the layout where visitors can glance through the project list and drill down to the details if required.

2.3.4 Resume Page

This gives a downloadable PDF copy of Sahil's resume and a preview of it in case one needs to refer to it. This helps the employer without even having to ask to be in a position to assess his qualifications as and when necessary.

2.3.5 Contact Page

Includes a basic contact form implemented with the help of Formspree that allows the users to send a message. The form is simple and color-coded with labels hoping to eliminate confusion and hectic input fields.

2.4 Accessibility and Responsiveness

The site is designed with principles of web accessibility by having proper heading structure, proper use of links and title attributes, and by having proper color contrast. Attached to the CSS media queries exist to change the format

according to a user's device: desktop, tablet, or mobile. This responsiveness is paramount in meeting the fluidity of the presentation across different platforms and devices as well as considering the site's accessibility to all its visitors.

3 Implementation

Following the design principles of Sahil Bhagat's portfolio website is highly systematic as it constitutes the right online tools and materials that can portray the right image of the expert's prowess. Starting with the use of a GitHub repository to manage versions and hosting of the project, the project involves creating HTML files for the sections including About, Projects, Resume, and Contact. For instance, every page adheres to a similar layout where it is comprised of a header that also contains a navigation menu.

Hence the content aims to present Sahil's education, technical skills, and work experience in brief descriptions, links to the projects hosted on the GitHub account, and an integrated or downloadable resume. It is adapted again by utilizing the CSS media queries to improve the visibility of the website's layout across devices. Accessibility is achieved through deployment on GitHub Pages; updating regularly guarantees that the portfolio corresponds to Sahil's progress and accomplishments in the software engineering field. This kind of structure not only builds a more professional image for Sahil but also enables the user, employer, or any party interested in the deeper assessment of Sahil's proficiency to do so easily.

4 Content of Computer Science Portfolio

Sahil Bhagat's Portfolio

[Home](#) [About](#) [Projects](#) [Resume](#) [Contact](#)

Welcome to My Portfolio

Hello! I'm Sahil Bhagat, a student of Bsc Software Engineering at Gisma University of Applied Sciences. This portfolio showcases my skills, projects, and experience.



Activate Windows
Go to Settings to activate Windows.

Personal Information

Name: Sahil Bhagat
Email: sahilbhagat123@gmail.com
Student ID: GH1023600
Course: Software Engineering
University: University of Applied Sciences
Tutor: Mr. Monideepa Paul

Education

2021 - Present Software Engineering
 University of Applied Sciences

Technical Skills

- Programming Languages: Java, Python, C++
 - Web Development: HTML, CSS, JavaScript
 - Tools: Git, GitHub, LaTeX
-

5 Explanation of the structure of the portfolio website and its corresponding GitHub repository

The organization of Sahil Bhagat's work portfolio is perfect to ensure maximum amortization of his professional outlook and surrender dexterity. The page is easy to recognize since it is usually an entrance or landing page to a website, and it swiftly presents the website's brief description and easy access to the main areas. The About page provides more information on Sahil, his education and experiences, and the expert's bio, which makes the viewers feel closer to him through the use of a professional photograph. Sahil's work is showcased on the Projects page and each of the projects is detailed through description and links to the specific GitHub repositories. This portion of the text proves his software development skills as well as his ability to apply skills in real-life situations.

The Resume page presents all the relevant information about Sahil's education, skills, and experience in tabular and bullet point format for easy readability and comes in a PDF format for easy downloading. For direct interaction on the Contact page, there is a simple form by which visitors can contact Sahil immediately and without difficulties. Across the website, the stylistic consistency and accessibility of the page layout on device platforms and screens are provided thanks to a CSS StyleSheet (styles.css). The image or the profile picture is in the folder of images (profile-pic.jpeg) and the resume in PDF format (CV.pdf) is likewise located in a proper folder on the GitHub site with proper structures for easy recognition and documentation. Aside from the benefit of increasing Sahil's online visibility, this organized framework can also build up his reliability and competency to possible employers and partners in software engineering.

6 Justification of the design decisions

6.1 Clear Navigation and Information Architecture

The choice of a static menu bar on all pages: Home, About, Projects, Resume, and Contact makes it easier for the users to navigate through Sahil's portfolio. This is useful to the visitor to enable them to locate the information they want as easily as possible, free from any confusion, thus improving their experience.

6.2 Professional Presentation

The clean and simple design also lies in the fact that the color scheme of this site is quite professional, sticking to a blue and gray theme. This approach complies with the norms and erases any possible gap between Sahil's formal business attitude and work performance.

6.3 Responsive Design

Using the elements of responsive design, the portfolio is made responsive to different devices and multiple screen sizes. What is beneficial with CSS media queries is the layout adjustment is catered for both desktops, tablets, and smartphones, thus reaching out to more people.

6.4 Content Organization

Arrange by various categories like About, Projects, and Resume keeps all the information orderly, making it easier to convey information about Sahil's experiences and capabilities. As it is observed, each section of the profile is developed to reflect a particular aspect that aims at assisting the visitors to get a glance at his expertise.

6.5 Visual Elements

A welcome addition to the About page is the inclusion of a professional profile picture which aids in the creation of rapport with the visitors. Professional images and typeset font add substance and make the text easy on the eye, which adds to the perception of Sahil's professionalism.

6.6 Interactive and Functional Elements

The choice to incorporate practical features such as the GitHub project links and the contact form raises participation. Since the nature of the portfolio is more than informative, the visitor can go ahead and evaluate projects or communicate directly, providing more opportunities for interaction.

7 Reflection on the development process

A thorough insight into the creation of Sahil Bhagat's portfolio website is beyond just an IT task. Several aspects have been considered for its realization from conceptualization to designing and finally implementing the portfolio.

7.1 Challenges and Solutions

The primary challenge encountered was ensuring the responsive design element was adaptable to multiple screen sizes without compromising the user experience. This was managed by testing the website on different devices during the development phase.

The second challenge was guaranteeing content accessibility and making the website accessible to users with disabilities. To address this, the appropriate use of header tags, color contrast, and alt text for images was applied.

Furthermore, Sahil developed and utilized proper documentation to tackle any future challenges and maintenance needs. The proper use of GitHub made it easy to manage changes and track the progress of his website efficiently.

7.2 Skills Gained

In terms of skills, the project enhanced Sahil's understanding of front-end development languages, HTML, CSS, and JavaScript. Additionally, the project improved his proficiency in version control using Git and GitHub, as well as in designing responsive and accessible web pages.

7.3 Future Improvements

Future developments might include adding more interactivity to the website by incorporating animations, adding a blog section to the portfolio to share insights and experiences, and enhancing the contact form to connect with an email server for seamless communication.

8 Conclusion

In summary, the portfolio website of Sahil Bhagat is a coherent representation of his abilities, experiences, and personality. The static navigation bar, the professional color scheme, and the clear content organization contribute towards a user-friendly and engaging experience. The systematic approach in designing and implementing a responsive and accessible portfolio website indeed reflects Sahil Bhagat's proficiency in web development and software engineering.

Github Link

<https://github.com/sahil0123-dot/sahil/upload/main>