Open Source Development for Google Applications

EXC1081

Faculty Name

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By:

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Frontend: Portfolio Website

Abstract

A portfolio is a compilation of materials that exemplifies your beliefs, skills, qualifications, education, training and experiences. It provides insight into your personality and work ethic. In today's digital world, a portfolio is arguably more important than a resume, no matter what industry you work in.

A portfolio website is an essential tool to getting more business and building your professional brand. Whether you are a freelance journalist, a recent college grad looking for a job, or even an accountant, when people Google your name, your portfolio will provide the most powerful and comprehensive perspective on you.

A portfolio is particularly relevant if you work in design, both if you are an independent web designer or part of an agency. The purpose of an online portfolio is to give a prospective client, like an art director, a sense of who you are, what you can do and whether you are the person they should hire to execute their project.

A portfolio website is like an identity of any front-end developer in this   corporate world

Introduction

Front-end web development, also known as client-side development is the practice of producing HTML, CSS and JavaScript for a website or Web Application so that a user can see and interact with them directly.

A front-end developer architects and develops websites and applications using web technologies (i.e., HTML, CSS, DOM, and JavaScript), which run on the Open Web Platform or act as compilation input for non-web platform environments.

The objective of designing a site is to ensure that when the user opens up the site they see the information in a format that is easy to read and relevant. This is further complicated by the fact that user now use a large variety of devices with varying screen sizes and resolutions thus forcing the designer to take into consideration these aspects when designing the site.

The frontend development of any webpage is the one that the user sees Infront of him. It is the interactive UI which should be user friendly and lets the User to have the full control of the webpage. It is the job of a Front-end Developer. In this project a front-end of portfolio webpage is to be created which is of great importance to the corporate world Developer in the corporate world.

Objective

- The main objective is to create front-end of a user-friendly Portfolio webpage with the help of HTML, CSS and various other tools used for the website designing.

- The Portfolio webpage should contain the following requirements:

    i)   About

    ii)   Experience

    iii)   Projects

    iv)   Skills

    v)   Certificates

    vi)   Education

    vii)   Contact and Resume

Software/Languages Used

- HTML 5

- CSS3

- Bootstrap

- JavaScript

- SASS

Softwares/Languages Function

1. HTML5

- HTML stands for Hypertext Markup Language. It is considered to be the base language on which the whole skeleton of the webpage is designed.

- It is because of this HTML language that the full webpage is organised in a very proper and sophisticated way.

- HTML is a low-level programming language that is used for creating web pages and websites. The all websites we see today on internet are created using HTML, CSS, JavaScript.

- HTML is used for writing text, Image, Video and add tags and all visible content on the Web. By using HTML, we can simply create a responsive webpage.

2. CSS3

- CSS is used for styling and making up the content on the web. Using CSS, we can add different effects on our webpage. And we can make our site even more beautiful. If the CSS of site is correct and also HTML codes, then the page will be responsive and attractive.

- CSS (Cascading Style Sheets) is used to style and lay out web pages — for example, to alter the font, color, size, and spacing of your content, split it into multiple columns, or add animations and other decorative features.

3. Bootstrap

- Bootstrap is a framework to help you design websites faster and easier. it is a free and open-source CSS framework directed at responsive, mobile-first front-end web development.

- Bootstrap is a front-end framework that is developed to support creating dynamic websites and web applications. It is one of the most preferred front-end frameworks as it aids an easy and fast processing to develop a website. It supports all major browsers and fast loading responsive web pages.

- It contains CSS- and JavaScript-based design templates for typography, forms, buttons, navigation, and other interface components.

4. SASS

- Sass (which stands for 'Syntactically awesome style sheets) is an extension of CSS that enables you to use things like variables, nested rules, inline imports and more. It also helps to keep things organised and allows you to create style sheets faster.

- A CSS pre-processor is a scripting language that extends CSS by allowing developers to write code in one language and then compile it into CSS. Sass is perhaps the most popular pre-processor around right now, but other well-known examples include Less and Stylus.

5. JavaScript

- JavaScript is a lightweight scripting programming language which is used to make web pages interactive, also it is can calculate, validate, manipulate the data. It can insert dynamic text into HTML and CSS.

- It is a Scripting language i.e. it need not be compiled but interpreted.

- JavaScript is a programming language for the web which can be used to update both HTML and CSS, it also performs all the logic, so you can do validations, calculations, manipulation of data.

- By using JavaScript, you can create working search button you can also add the commands on the webpage using JavaScript.

Codes:

1. HTML

```
<html lang="en"><head>
    <meta charset="utf-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1">
    <title>Hello there</title>
<link href="favicon.ico" rel="shortcut icon" type="image/x-icon">
<link href="favicon.ico" rel="icon" type="image/x-icon">
```

```
    <link href="https://fonts.googleapis.com/css?family=Lato:300,400,700,900"
rel="stylesheet">
    <link href="libs/font-awesome/css/font-awesome.min.css" rel="stylesheet">
    <link href="css/bootstrap.min.css" rel="stylesheet">
    <link href="css/styles.css" rel="stylesheet">
</head>

<body>
    <div class="shadow-large" id="mobile-menu-open">
        <i class="fa fa-bars" aria-hidden="true"></i>
    </div>
    <!-- End #mobile-menu-toggle -->
    <header>
        <div id="mobile-menu-close">
            <span>Close</span> <i class="fa fa-times" aria-hidden="true"></i>
        </div>
        <ul class="shadow" id="menu">
            <li><a href="#about">About</a></li>
            <li><a href="#experience">Experience</a></li>
      <li><a href="#projects">Projects</a></li>
      <li><a href="#skills">Skills</a></li>
      <li><a href="#certificates">Certificates</a></li>
            <li><a href="#education">Education</a></li>
            <li><a href="#contact">Contact</a></li>
        </ul>
    </header>
    <!-- End header -->

    <div id="lead">
        <div id="lead-content">
            <h1 >Shwetank Mamidwar</h1>
            <h2>Electronics and Communication Engineering Student</h2>

        </div>
        <!-- End #lead-content -->

        <div id="lead-overlay"></div>

        <div id="lead-down">
            <span>
                <i class="fa fa-chevron-down" aria-hidden="true"></i>
            </span>
        </div>
        <!-- End #lead-down -->
    </div>
    <!-- End #lead -->

    <div id="about">
        <div class="container">
            <div class="row">
                <div class="col-md-4">
                    <h2 class="heading">About Me</h2>
                </div>
                <div class="col-md-8">
                    <p>
                        I am Shwetank Mamidwar. I am a Student of B.Tech Degree
in Electronics and Communication with a Specialisation in IOT and Sensors in
Vellore Institute of Technology,Vellore. I am currently in the 2nd year of my
bachaleors degree program.
                    </p>
```

```
            </div>
          </div>
        </div>
      </div>
      <!-- End #about -->
 <div id="experience" class="background-alt">
        <h2 class="heading">Experience</h2>
        <div id="experience-timeline">
            <div data-date="May 2019 - June 2019">
                <h3>Ganraj Marketing and Solutions</h3>
                <h4>Intern</h4>
                <p>
                        It was good working with this company. A good experience is
very useful in this line of work. And to get more experience the support staff
and the company which we work for isvery necessary.
                </p>
            </div>

            <div data-date="May 2020 - June 2020">
                <h3>Empireal Infotech</h3>
                <h4>Intern</h4>
                <p>
                        It was good working with this company. A good experience
is very useful in this line of work. And to get more experience the support
staff and the company which we work for isvery necessary.
                </p>
            </div>

        </div>
    </div>
    <!-- End #experience --
    <div  id="projects">
        <h2 class="heading">Projects</h2>
        <div class="container">
            <div class="row">
                <div class="project shadow-large">
                    <div class="project-image">
                        <img src="images/project.jpg">
                    </div>
                    <!-- End .project-image -->
                    <div class="project-info">
                        <h3>IR based counting System for VIT Shuttle </h3>
                        <p>
                            The project is very simple in itself. IT included a
IR blaster and IR reciever with a simple circuitory. Whenever someone passes
through the line of the sight of the sensors, the circuit is broken and a count
is incremented.
                                        To digitize the output a FPGA board is
used for the work. It Uses a code which incerments when there is voltage drop
accross the ends of the clock.
                        </p>
                        <a href="#">View Project</a>
                    </div>
                    <!-- End .project-info -->
                </div>
                <!-- End .project -->

                <div class="project shadow-large">
                    <div class="project-image">
                        <img src="images/project.jpg">
```

```
                        </div>
                        <!-- End .project-image -->
                        <div class="project-info">
                            <h3>An IOT based Smoke alarm system</h3>
                            <p>
                                    Using a Node MCU and MQ5 sensor this makees a good
sensory system to detect the Smoke and the sens the Data to be snalysed.
                                            To send the data to the cloud we used a
Thinkspeak API for this purpose which acts as the database for the data
collection. In addition to it an application was made to send thisvital info
directly to the user's smartphone.
                            </p>
                            <a href="#">View Project</a>
                        </div>
                        <!-- End .project-info -->
                    </div>
                    <!-- End .project -->
                </div>
            </div>
        </div>
        <!-- End #projects -->

        <div id="skills" class="background-alt">
            <h2 class="heading">Skills</h2>
            <ul>
                <li>JavaScript</li>
                <li>Python</li>
                <li>Node.js</li>
                <li>Matlab</li>
                <li>Java</li>
                <li>C</li>
                <li>C#</li>
                <li>C++</li>
                <li>Keil Microvision</li>
        <li>Multisim</li>
        <li>Quartus</li>
        <li>Labview</li>
        <li>HTML</li>
        <li>C++</li>
        <li>Assembly Level Programming 8086</li>
            </ul>
        </div>
        <!-- End #skills -->

 <div  id="certificates">
        <h2 class="heading">Certificates</h2>
         <div class="container">
            <div class="row">
                <div class="project shadow-large">
                    <div class="project-image">
                        <img src="images/certificate.jpg">
                    </div>
                    <!-- End .project-image -->
                    <div class="project-info">
                        <h3>Recent Advances inFreeform Electronics</h3>
                        <p>
                                This is the certificte that i have recieved from
the Courcera office of oline Education after the completion of the course of
Recent Advances inFreeform Electronics. This course was offered from the Yonsei
University.
```

```
                                        </p>

                            </div>
                            <!-- End .project-info -->
                    </div>
                    <!-- End .project -->
               </div>
          </div>
     </div>
     <!-- End #projects -->

<div id="education" class="background-alt">

<div class="container">
          <div class="row">

          <h2 class="heading">Education</h2>
          <div class="education-block">
               <h3>Vellore Institute of Technology, Vellore</h3>
               <span class="education-date">July 2018 -  July 2022</span>
               <h4>Bachelor of Technology in Electronics and Communication
Engineering specialisation in IOT and Sensors.</h4>

          </div>
          <!-- End .education-block -->

     <div id="contact">
          <h2 style="color:black">Get in Touch</h2>
          <div id="contact-form">
               <form action="https://formspree.io/email@email.com" method="POST">
                    <input name="_subject" type="hidden" value="Contact request
from personal website">
                    <input style="background-color:#c39b77"  name="_replyto"
required="" type="email" placeholder="Your email">
                    <textarea style="background-color:#c39b77" name="message"
required=""  placeholder="Your message"></textarea>
                    <button type="submit">Send</button>
               </form>
          <a class="btn-rounded-white" href="#">Download Resume</a>
          </div>
          <!-- End #contact-form -->
     </div>
     <!-- End #contact -->

     <footer>
          <div class="container">
               <div class="row">
                    <div class="col-sm-5 copyright">
                         <p>
                              Copyright © 2020 Shwetank
                         </p>
                    </div>
                    <div class="col-sm-2 top">
                         <span id="to-top">
                              <i class="fa fa-chevron-up" aria-hidden="true"></i>
                         </span>
                    </div>
                    <div class="col-sm-5 social">
                         <ul>
                              <li>
```

```
                                <ahref="https://github.com/" target="_blank"><i
        class="fa fa-github" aria-hidden="true"></i></a>
                                </li>
                                <li>
                                    <a href="https://stackoverflow.com/"
        target="_blank"><i class="fa fa-stack-overflow" aria-hidden="true"></i></a>
                                </li>
                                <li>
                                    <a href="https://linkedin.com/" target="_blank"><i
        class="fa fa-linkedin" aria-hidden="true"></i></a>
                                </li>
                                <li>
                                    <a href="https://www.facebook.com/"
        target="_blank"><i class="fa fa-facebook" aria-hidden="true"></i></a>
                                </li>
                                <li>
                                    <a href="https://twitter.com/" target="_blank"><i
        class="fa fa-twitter" aria-hidden="true"></i></a>
                                </li>
                                <li>
                                    <a href="https://plus.google.com/"
        target="_blank"><i class="fa fa-google-plus" aria-hidden="true"></i></a>
                                </li>
                            </ul>
                        </div>
                    </div>
                </div>
            </footer>
            <!-- End footer -->

            <script
        src="https://ajax.googleapis.com/ajax/libs/jquery/1.12.4/jquery.min.js"></scrip
        t>
            <script src="js/scripts.min.js"></script>
        </body></html>
```
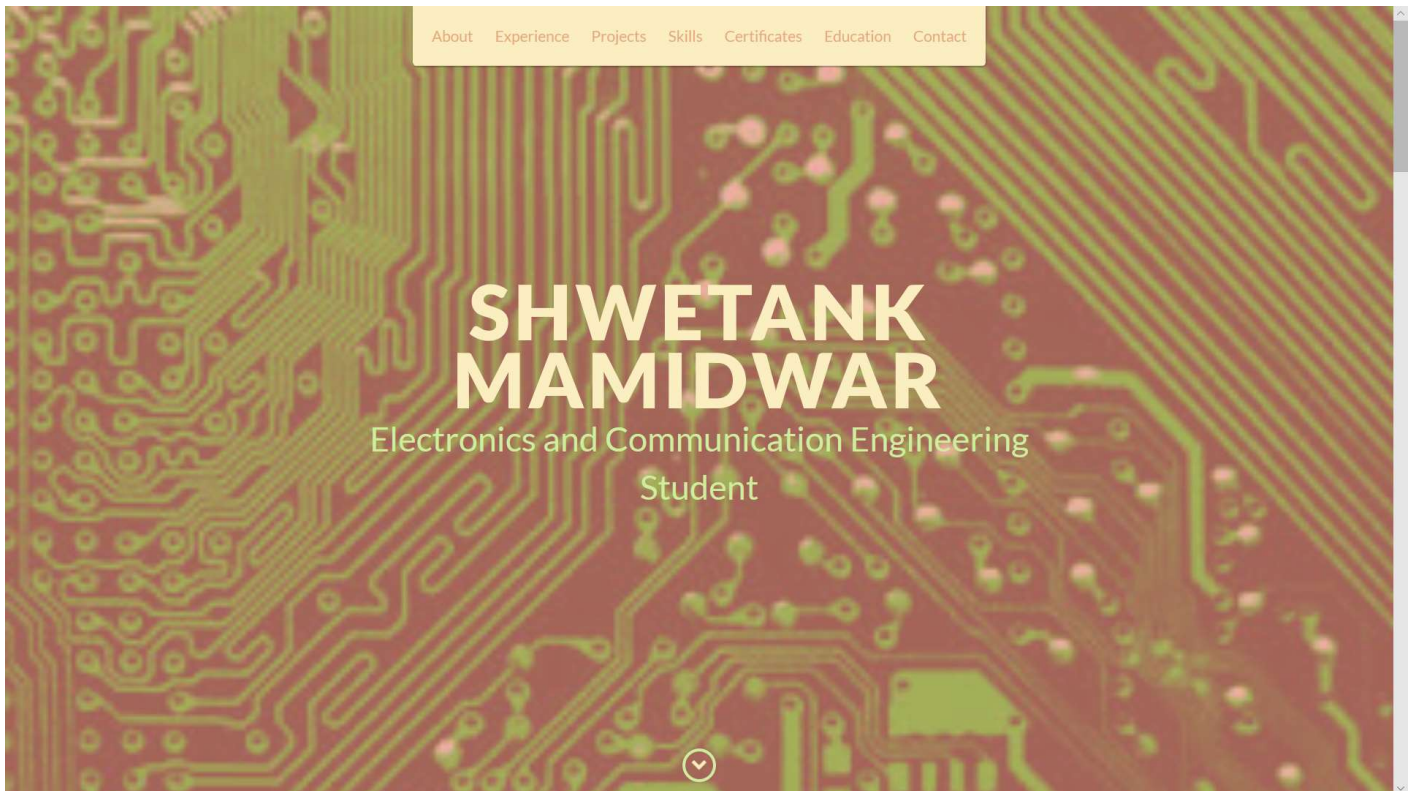
NOTE:

1. *The codes of the CSS and Javascript are very big so are not included in the document. If needed could be examined they are present under css and js folder respetively in the Github repository.*

2. *To Run the Website Please clone download the full Folder from the repository and run the heko.html file present in the folder.*

Windows Output:

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Experience

May 2019 – June 2019

Ganraj Marketing and Solutions
Intern

It was good working with this company. A good experience is very useful in this line of work. And to get more experience the support staff and the company which we work for isvery necessary.
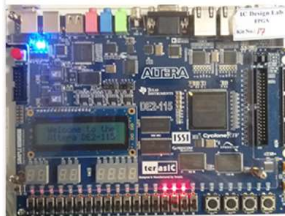
May 2020 – June 2020

Empireal Infotech
Intern

It was good working with this company. A good experience is very useful in this line of work. And to get more experience the support staff and the company which we work for isvery necessary.
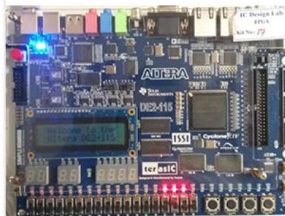
Projects

IR based counting System for VIT Shuttle

The project is very simple in itself. IT included a IR blaster and IR reciever with a simple circuitory. Whenever someone passes through the line of the sight of the sensors, the circuit is broken and a count is incremented. To digitize the output a FPGA board is used for the work. It Uses a code which incerments when there is voltage drop accross the ends of the clock.

View Project

An IOT based Smoke alarm system

Using a Node MCU and MQ5 sensor this makees a good sensory system to detect the Smoke and the sens the Data to be snalysed. To send the data to the cloud we used a Thinkspeak API for this purpose which acts as the database for the data collection. In addition to it an application was made to send thisvital info directly to the user's smartphone.

View Project

Skills

JavaScript   Python   Node.js   Matlab   Java   C   C#   C++

Keil Microvision   Multisim   Quartus   Labview   HTML   C++

Assembly Level Programming 8086

Certificates

Recent Advances inFreeform Electronics

This is the certificte that i have recieved from the Courcera office of oline Education after the completion of the course of Recent Advances inFreeform Electronics. This course was offered from the Yonsei University.

Education

Vellore Institute of Technology, Vellore July 2018 - July 2022
Bachelor of Technology in Electronics and Communication Engineering specialisation in IOT and Sensors.

Get in Touch

Your email

Your message

Send

Download Resume

Project Summary

The purpose of this project is as follows:

1. To create a light weight and responsive portfolio frontend webpage.

2. Using the HTML to create the skeleton of the website.

3. Later using the CSS and bootstrap to beautify and get the grids on the webpage.

4. Using SASS further beautifying the Website to make it more attractive and User friendly.

THANK YOU!