ITC293 – Introduction to the Web

Assessment 4

HTML, CSS, Design and Java Script

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Personal Portfolio Website

Electric Cars

A car on the road

Description automatically generated

Image Source: [Bram Van Oost](https://unsplash.com/photos/parked-blue-coupe-beside-trees-during-daytime-eaPkue76Ip4)

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# Notes

## Images and File Sizes

Although the assignment states the website must fit a 1024x768 monitor, all images were sized based on a 1920x1080 monitor. This is because as they currently are, all images take up approximately 1.02mb of storage but provide more clarity at higher resolutions that strictly required. All images have been scaled down to fit exactly within the 1920x1080 screen, however, and any CSS related to image sizing simply fits the image within their space when viewed in a smaller or larger window.

## Online website

The website is publicly available at:

<https://jacobmiscdev.github.io/index.html>

Please note, this website contains an additional page, ‘index.html.’ This is because a page named as such is required for the github pages service. This page is an exact copy of the ‘MounceStephensJ\_ITC293\_A3\_Index.html’ page. The ‘index.html’ page will only link away and cannot be linked back to. All other pages will link to the ‘MounceStephensJ\_ITC293\_A3\_Index.html’ version.

## Presentation

The presentation for the website can be found at:

<https://www.youtube.com/watch?v=eFWnkHkz1kU>

## Form and JavaScript

I was unable to determine if the URL we are supposed to post the form data to existed and I couldn’t find any information regarding any formatting requirements related to how the data is to be sent. As a result, my form sends the form data as-is to the URL provided even if that URL may not actually exist. I did try to get clarification on this problem but was unable to find a clear answer.

# Concept Map

A diagram of a website

Description automatically generated

# CSS Design

The index, about, and web skills page all utilise the CSS layout below on the left.

In this layout, the header section will contain information such as name and contact information as well as a logo for the site. The two navigation bars will contain everything related to navigating the website. The two content sections will contain the website text, images, and video content. Finally, the footer will contain the copyright notice for the site.

A screenshot of a computer

Description automatically generatedA screenshot of a web page

Description automatically generatedThe resume page, communication skills page, and the form page will instead use the layout below on the right, which uses only one content section instead of two. All other details will be the same.

# Structure Chart

A diagram of a computer

Description automatically generated

# Navigation Map

A diagram with text and words

Description automatically generated with medium confidence

Each file is linked together using the navigation section at the top of each page. It is demonstrated below:

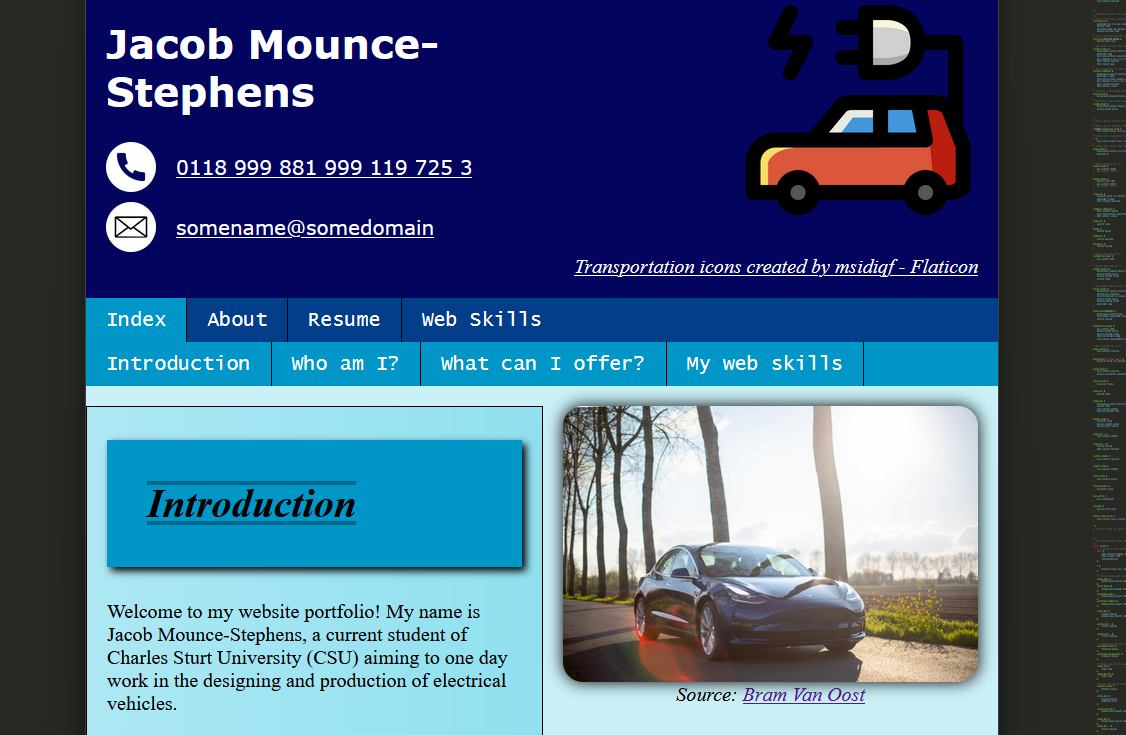
A screenshot of a computer

Description automatically generated

# Testing Plan

For a simple website such as what this one is planned to be, there will be two main aspects to test. The first is ensuring page navigation works across multiple browsers. The other is ensuring that the website can resize and appear as expected across multiple aspect ratios and browsers.

These can both be tested, to a reasonable extent, by opening the page on multiple devices and browsers. After this, linking can be tested by using the navigation buttons and the visuals of the site can be tested by scaling the browser window to adjust the aspect ratio, as demonstrated below.



Above is in the firefox browser.

A screenshot of a computer

Description automatically generated

Above is in the edge browser.

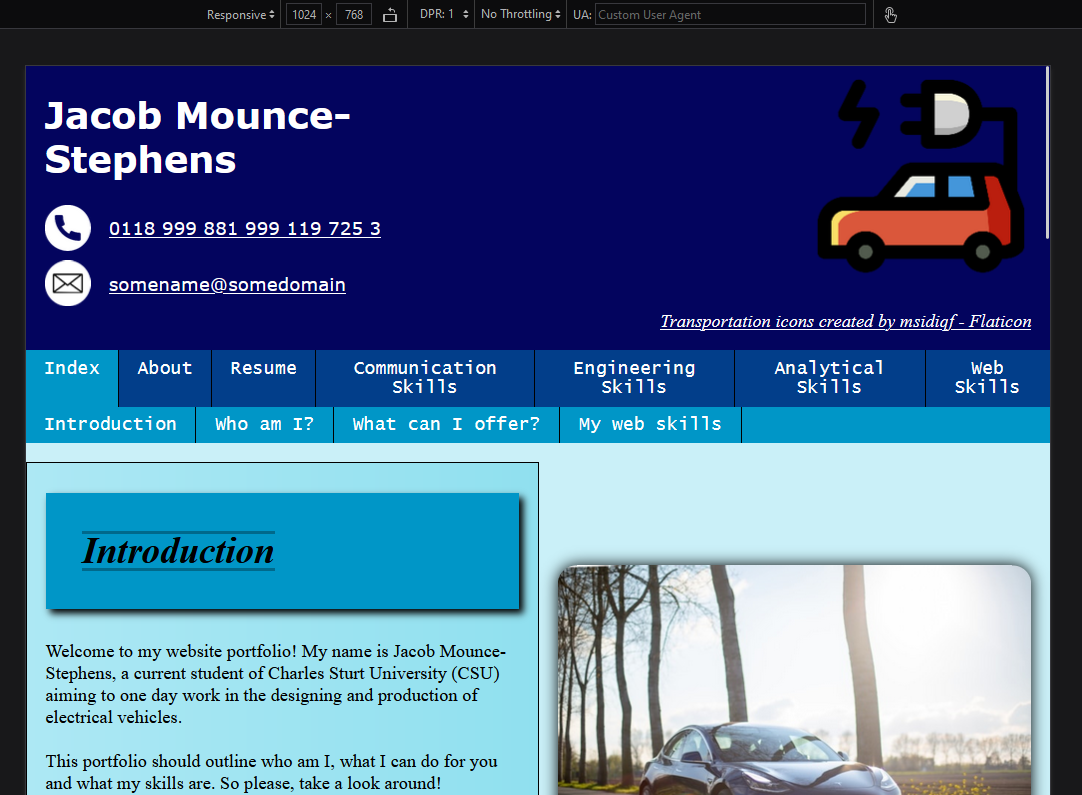
Navigating around the website in this fashion can help to identify issues. For example, in the edge image, part of the email address is hidden due to the very unusual, narrow aspect ratio. It is considered beyond the scope of this task however in a different situation, that would be an issue that requires addressing. It is not corrected for this site because it likely would require dynamic text scaling for an edge case that is only worth considering if the website is intended to be used on a mobile device.

In regard to testing the HTML and CSS code, this can be accomplished using external HTML and CSS validators as demonstrated below. Finally, the printing mode of the site can be tested using built-in browser tools or by printing the website. The tools are demonstrated below:

A computer screen shot of a computer screen

Description automatically generated

Finally, another stage of the testing is by using the feature available in firefox to set the webpage to fit a specific size, referred to as “responsive design mode.”



This enables testing on common device sizes such as 1024x768 like specifically stated in the assignment.

# MounceStephensJ\_ITC293\_A3\_Index.html

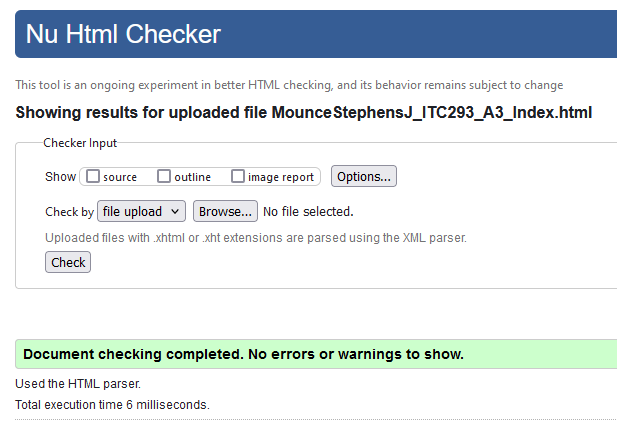
## Storyboard

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Page title | MounceStephensJ\_ITC293\_A3\_Index.html | | Screen ID | 1.0 | Date | 1/6/2024 |
|  | | | Elements | | | |
| Graphics | Basic icons will be used in the header of each page. Other images used will be relevant to an accompanying paragraph to enhance reading experience. | | |
| Text | The text present on this page will provide a summary of the text that will appear on the other pages on the site. | | |
| Audio/Video | None | | |
| Notes | - This website is designed using the CSS box model in mind to position elements.  - The general layout of this page uses two columns, one containing text and the other containing an image(s). | | |
| Description | | Website homepage. | | | | |
| Content | | A brief introduction from me and short summaries of what every other page on the website is going to contain. | | | | |
| Interactions | | Website navigation links: between pages and around the same page.  Phone and email links. | | | | |
| Media Creation | | Images not marked with a source are fully created by me and are original works. Images marked with “Source:” are derived from a website that hosts free use images licensed under Creative Commons. Any image modifications are made through CSS. | | | | |
| Navigation | | Navigation is made possible through the navigation bar at the top of the screen. It lists all pages on the website and also highlights the page the user is currently on. Furthermore, there are phone and email links to assist the user.  Additionally, this page contains a second navigation bar, below the first, which allows the user to navigate between headings on the current page easier.  Finally, each subheading on this page is related to a different page on the site and therefore contains a link to go to the related page. | | | | |

## Code

|  |
| --- |
| <!DOCTYPE html>  <html lang="en">  <head>  <!--  ITC293 - Introduction to the web  Assessment 4 - HTML, CSS, Design and Java Script    Jacob Mounce-Stephens  1/6/2024  This page contains a brief introduction as well as basic summary  of the contents of the other pages on this site.  -->  <meta charset="utf-8">  <meta name="author" content="Jacob Mounce-Stephens">  <meta name="description" content="Portfolio website index page">  <meta name="keywords" content="Portfolio, Electric cars">  <title>My Portfolio - Index</title>  <link rel="stylesheet" href="css/MounceStephensJ\_ITC293\_A3\_CSS.css">  <link rel="icon" href="images/MounceStephensJ\_ITC293\_A3\_Transport\_Icon.png">  </head>  <body class="page-body">  <!-- Div contains the website header -->  <div class="page-header">  <div class="name-bar">  <h1>Jacob Mounce-Stephens</h1>  <div class="phone-bar">  <img src="images/MounceStephensJ\_ITC293\_A3\_Phone\_Icon.png" alt="Phone icon" class="header-image">  <a href="tel:0118-999-881-999-119-725-3">0118 999 881 999 119 725 3</a>  </div>  <div class="email-bar">  <img src="images/MounceStephensJ\_ITC293\_A3\_Email\_Icon.png" alt="Email icon" class="header-image">  <a href="mailto:somename@somedomain">somename@somedomain</a>  </div>  </div>  <div class="logo-bar">  <img src="images/MounceStephensJ\_ITC293\_A3\_Transport\_Icon.png" alt="Website logo. An electric car." class="header-logo">  <p><a href="https://www.flaticon.com/free-icons/transportation" title="transportation icons">Transportation icons created by msidiqf - Flaticon</a></p>  </div>  </div>  <!-- Div contains both the internal and external navigation bars -->  <div class="navigation-div">  <div class="navigation-bar">  <ul>  <li class="active">Index</li>  <li><a href="MounceStephensJ\_ITC293\_A3\_About.html">About</a></li>  <li><a href="MounceStephensJ\_ITC293\_A3\_Resume.html">Resume</a></li>  <li><a href="MounceStephensJ\_ITC293\_A3\_Skill\_1\_Communication.html">Communication Skills</a></li>  <li><a href="MounceStephensJ\_ITC293\_A3\_Skill\_2\_Engineering.html">Engineering Skills</a></li>  <li><a href="MounceStephensJ\_ITC293\_A3\_Skill\_3\_Problem\_Solving.html">Analytical Skills</a></li>  <li><a href="MounceStephensJ\_ITC293\_A3\_Skill\_4\_Web\_Skills.html">Web Skills</a></li>  </ul>  </div>  <div class="internal-navigation">  <ul>  <li><a href="#intro-jump">Introduction</a></li>  <li><a href="#about-jump">Who am I?</a></li>  <li><a href="#resume-jump">What can I offer?</a></li>  <li><a href="#web-skills-jump">My web skills</a></li>  </ul>  </div>  </div>  <div class="index-body">  <div class="flex-display">  <div class="text-block left-block" id="intro-summary">  <!-- Credit (explained in document): Robert Hickman - https://stackoverflow.com/questions/38530800/jumping-to-a-different-part-of-the-same-page-with-a-margin -->  <h2 class="section-head"><span id="intro-jump" class="jump-top"><span class="jump-bottom">Introduction</span></span></h2>  <p>  Welcome to my website portfolio! My name is Jacob Mounce-Stephens, a current student of Charles Sturt University (CSU) aiming to one day work in the designing and production of electrical vehicles.<br><br>  This portfolio should outline who am I, what I can do for you and what my skills are. So please, take a look around!<br><br>  If, after browsing this portfolio, there is anything you wish to ask me about, or think there is something I can contribute to you, please reach out to me through the email address of phone number provided at the top of all pages or by clicking the links below:  </p>  <ul>  <li><a href="tel:0118-999-881-999-119-725-3">0118 999 881 999 119 725 3</a></li>  <li><a href="mailto:somename@somedomain">somename@somedomain</a></li>  </ul>  </div>  <div class="image-section">  <div class="image-with-credit-box">  <img src="images/MounceStephensJ\_ITC293\_A3\_Electric\_Car.jpg" alt="Image of car" class="website-image">  <p>Source: <a href="https://unsplash.com/photos/parked-blue-coupe-beside-trees-during-daytime-eaPkue76Ip4">Bram Van Oost</a></p>  </div>  </div>  </div>  <div class="flex-display">  <div class="image-section">  <!-- Credit box divs needed for formatting. The images are original. -->  <!--  Nested divs used for image formatting. Needed to make the code similar  to how the other images are formatted. Only used for image sections with 2 stacked images.  -->  <div class="image-table-row">  <div class="image-with-credit-box">  <img src="images/MounceStephensJ\_ITC293\_A3\_Code\_Demo\_1.png" alt="Example C++ code" class="website-image code1-image">  </div>  </div>  <div class="image-table-row">  <div class="image-with-credit-box">  <img src="images/MounceStephensJ\_ITC293\_A3\_Math\_Demo.png" alt="Example math equation" class="website-image math1-image">  </div>  </div>  </div>  <div class="text-block right-block" id="about-summary">  <h2 class="section-head right-align"><span id="about-jump" class="jump-top"><span class="jump-bottom">Who am I?</span></span></h2>  <p>  I am currently a student at CSU completing a bachelor of computer science. Throughout my life I have always loved <span class="subject-emphasis comp-sci">computers</span>, <span class="subject-emphasis maths">mathematics</span>, <span class="subject-emphasis engineer">engineering</span> and all forms of <span class="subject-emphasis hardware">electronics and machinery</span>.  </p>  <hr>  <ul class="left-align">  <li><span class="subject-emphasis comp-sci">Computer science</span></li>  <li class="no-list-style">  <ul>  <li>Owned a computer science 2015</li>  <li>Built my own personal computer in 2022</li>  <li>First learned how to program in year 8</li>  <li>Studied several programming languages including (in order of learning):</li>  <li class="no-list-style">  <ol>  <li>Python</li>  <li>HTML, CSS, JavaScript</li>  <li>C++ (My main language)</li>  <li>Limited assembly</li>  <li>Java</li>  </ol>  </li>  <li>Great interest in graphical, GPU driven, programming</li>  </ul>  </li>  <li><span class="subject-emphasis maths">Mathematics</span></li>  <li class="no-list-style">  <ul>  <li>Loved mathematics since year 5 of school</li>  <li>Studied extension 1 and 2 in high school</li>  <li>Research mathematics in spare time</li>  </ul>  </li>  <li><span class="subject-emphasis engineer">Engineering</span></li>  <li class="no-list-style">  <ul>  <li>Am extremely impressed and amazed by the engineering work of humans throughout history</li>  <li>Enjoy dissassembling old machines to inspect how they work</li>  <li>Learned about some engineering processes through some carpentry lessons</li>  </ul>  </li>  <li><span class="subject-emphasis hardware">Electronics and machinery</span></li>  <li class="no-list-style">  <ul>  <li>Assembled my own computer</li>  <li>I enjoy researching the fundamentals about how computers work on a hardware level</li>  <li>Studied electronics where I have constructed basic circuitry</li>  </ul>  </li>  </ul>  <hr>  <p class="center-align">  To find out more about who I am, please visit my <a href="jmouncestephens\_A1\_about.html" class="link-box">about</a> page.  </p>  </div>  </div>  <div class="text-block left-block" id="resume-summary">  <h2 class="section-head"><span id="resume-jump" class="jump-top"><span class="jump-bottom">What can I offer?</span></span></h2>  <p>  Over the course of my educational career, I have learned lots about electronics, engineering and computer science. As a result I have spent a lot of time discovering and exploring my interest in these fields.<br><br>Naturally, these interests have resulted in my desire to learn about electric cars and spark interest in working on the production of these cars. I personally believe my abilities are more suited to the design and production of the components that form these cars rather than the cars themselves however I am extremely motivated to make any contribution I am able to.  </p>  <hr>  <p class="center-align">  To find out more about what I am able to offer, please visit my <a href="jmouncestephens\_A1\_resume.html" class="link-box">resume</a> page. Alternatively, for some of my skills, please visit the skills pages: <a href="skill\_1\_communication.html" class="link-box">Communication</a>, <a href="skill\_2\_engineering.html" class="link-box">engineering</a>, <a href="skill\_3\_problem\_solving.html" class="link-box">analytical</a>.  </p>  </div>    <div class="flex-display">  <div class="image-section">  <div class="image-with-credit-box">  <img src="images/MounceStephensJ\_ITC293\_A3\_Web\_Image.jpg" alt="Image of html, css, javascript logos" class="website-image">  <p>Source: <a href="https://unsplash.com/photos/a-computer-screen-with-a-keyboard-and-a-box-with-a-logo-YOEHA0Ou8ZY">Growtika</a></p>  </div>  </div>  <div class="text-block right-block" id="web-summary">  <h2 class="section-head right-align"><span id="web-skills-jump" class="jump-top"><span class="jump-bottom">My web skills</span></span></h2>  <p>  Over the course of the years I have been interested in software development and computer science, I have developed my abilties in relation to web development. While not my primary area of focus, I have learned many of the fundamentals required for web development including those from HTML, CSS and some JavaScript.<br><br>In fact, this entire portfolio website was developed from the ground up by myself only relying on a simple text editor, Sublime Text. My abilties span beyond what is demonstrated here, however.  </p>  <hr>  <p class="center-align">  To find out more about what I am capable of in web development, please visit my <a href="jmouncestephens\_A1\_web\_skills.html" class="link-box">web skills</a> page.  </p>  </div>  </div>  </div>  <hr>  <footer class="page-footer">  <p>&copy; 2024 Jacob Mounce-Stephens. All rights reserved. All images/videos are original works unless otherwise stated.<br>Phone and Email icon in header are designed by <a href="www.freepik.com">Freepik</a>.</p>  </footer>  </body>  </html> |

## Validation



## Personal Reflection

Of all the pages that I had to create for the website, the index page took the longest and was the most complex, as such, it also will have a much longer reflection than the other pages.

For me, creating this page was the most challenging because it was the first page that I created for the website. This meant that before I could begin working on it I had to consider different ideas for how I eventually wanted the website to look and feel to use. This process took a decent amount of time because I struggle quite a lot when it comes to visual design of anything, and I also had to consider what the requirements and expectations were for the entire task.  
 After quite a bit of considering and storyboard planning, I settled on the basic design (from top to bottom) of header, navigation bar, two columns for content with text and images swapping sides and finally a footer. Another important consideration to be made was the colour palette and style I wanted for the site. After some consideration, and online research, I decided on a blue focused colour palette that ranges from darker shades to lighter shades.  
 Since the CSS style sheet can be applied across the entire website, this first page also laid the foundations for the style sheet. This meant I had to spend time tinkering with padding, margins, colours, element positions and more while constructing this first page. I spent a lot of time working on this page because I knew it would make the other pages much smoother to create. After my work I am quite happy with the overall feel and layout of the website and I cannot think of anything I would particularly change.  
 I did encounter a few challenges while setting up this page, however. There were several issues with positioning the navigation bar, getting its layout exactly how I wanted and ensuring it was always visible on the screen however I satisfactorily resolved those issues to create the current navigation bar and header. The main disappointment I have with the aesthetics of the site are a detail I was hoping to incorporate into the header however I could not get it to look and work how I wanted. Another challenge I faced was with the internal navigation bar. Originally, when using it, upon jumping to another point on the page, the title of that section was covered by the navigation bar. This was unacceptable and I struggled a lot with finding a solution. Eventually, however, I was able to come across a solution online involving nesting two <span> elements around the jump points. I have credited this solution throughout the website, leaving a note above the first time it is used on each page.  
 My plan for the header was the have an image on the right half that would split the header diagonally, making the header appear as two connected trapezoids, one containing the header content and the other an image. Unfortunately, I was unable to get this working how I wanted. The only other main issue I encountered, that I can recall, was in the divs that contained multiple images, I was hoping to stack the images on top of each other slightly because I believed it would be visually pleasing. The issue I encountered here is that I am not knowledgeable enough when it comes to CSS to create an effect like this while also ensuring the website maintained the same look and element ratios as what I was developing it with when viewed on other devices or platforms.

# MounceStephensJ\_ITC293\_A3\_About.html

## Storyboard

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Page title | MounceStephensJ\_ITC293\_A3\_About.html | | | Screen ID | 2.1 | Date | 1/6/2024 |
|  | | | Elements | | | | |
| Graphics | | Basic icons will be used in the header of each page. Other images used will be relevant to an accompanying paragraph to enhance reading experience. | | |
| Text | | The text on this page will talk about who I am as a person. This includes topics such as what my hobbies are. Furthermore, this page will cover my education and relation with electric vehicles. | | |
| Audio/Video | | A video of a program that I previously created. | | |
| Notes | | - This website is designed using the CSS box model in mind to position elements.  - The general layout of this page uses two columns, one containing text and the other containing an image(s) and a video. | | |
| Description | | About me page. | | | | | |
| Content | | A detailed ‘about me’ page describing a lot more about how I am as a person. Covers information about my private life such as hobbies. Additionally, details my experiences and journey through education and what my relationship with electric cars is. | | | | | |
| Interactions | | Website navigation links: between pages and around the same page.  Phone and email links. | | | | | |
| Media Creation | | Images not marked with a source are fully created by me and are original works. Images marked with “Source:” are derived from a website that hosts free use images licensed under Creative Commons. Any image modifications are made through CSS.  The video on this page is also fully created by me and is an original work. | | | | | |
| Navigation | | Navigation is made possible through the navigation bar at the top of the screen. It lists all pages on the website and also highlights the page the user is currently on. Furthermore, there are phone and email links to assist the user.  Additionally, this page contains a second navigation bar, below the first, which allows the user to navigate between headings on the current page easier. | | | | | |

## Code

|  |
| --- |
| <!DOCTYPE html>  <html lang="en">  <head>  <!--  ITC293 - Introduction to the web  Assessment 4 - HTML, CSS, Design and Java Script    Jacob Mounce-Stephens  1/6/2024  This page contains a more detailed about section discussing who  I am and what my interests and education is.  -->  <meta charset="utf-8">  <meta name="author" content="Jacob Mounce-Stephens">  <meta name="description" content="Portfolio website about page">  <meta name="keywords" content="Portfolio, Electric cars">  <title>My Portfolio - About me</title>  <link rel="stylesheet" href="css/MounceStephensJ\_ITC293\_A3\_CSS.css">  <link rel="icon" href="images/MounceStephensJ\_ITC293\_A3\_Transport\_Icon.png">  </head>  <body class="page-body">  <!-- Div contains the website header -->  <div class="page-header">  <div class="name-bar">  <h1>Jacob Mounce-Stephens</h1>  <div class="phone-bar">  <img src="images/MounceStephensJ\_ITC293\_A3\_Phone\_Icon.png" alt="Phone icon" class="header-image">  <a href="tel:0118-999-881-999-119-725-3">0118 999 881 999 119 725 3</a>  </div>  <div class="email-bar">  <img src="images/MounceStephensJ\_ITC293\_A3\_Email\_Icon.png" alt="Email icon" class="header-image">  <a href="mailto:somename@somedomain">somename@somedomain</a>  </div>  </div>  <div class="logo-bar">  <img src="images/MounceStephensJ\_ITC293\_A3\_Transport\_Icon.png" alt="Website logo. An electric car." class="header-logo">  <p><a href="https://www.flaticon.com/free-icons/transportation" title="transportation icons">Transportation icons created by msidiqf - Flaticon</a></p>  </div>  </div>  <!-- Div contains both the internal and external navigation bars -->  <div class="navigation-div">  <div class="navigation-bar">  <ul>  <li><a href="MounceStephensJ\_ITC293\_A3\_Index.html">Index</a></li>  <li class="active">About</li>  <li><a href="MounceStephensJ\_ITC293\_A3\_Resume.html">Resume</a></li>  <li><a href="MounceStephensJ\_ITC293\_A3\_Skill\_1\_Communication.html">Communication Skills</a></li>  <li><a href="MounceStephensJ\_ITC293\_A3\_Skill\_2\_Engineering.html">Engineering Skills</a></li>  <li><a href="MounceStephensJ\_ITC293\_A3\_Skill\_3\_Problem\_Solving.html">Analytical Skills</a></li>  <li><a href="MounceStephensJ\_ITC293\_A3\_Skill\_4\_Web\_Skills.html">Web Skills</a></li>  </ul>  </div>  <div class="internal-navigation">  <ul>  <li><a href="#about-me-jump">All about me</a></li>  <li><a href="#education-jump">My education</a></li>  <li><a href="#electric-vehicles-jump">My relation with electric vehicles</a></li>  </ul>  </div>  </div>  <div class="about-body">  <div class="flex-display">  <div class="image-section">  <!--  Nested divs used for image formatting. Needed to make the code similar  to how the other images are formatted. Only used for image sections with 2 stacked images.  -->  <div class="image-table-row">  <div class="image-with-credit-box">  <img src="images/MounceStephensJ\_ITC293\_A3\_Raspberry\_Pi.jpg" alt="A raspberry pi computer" class="website-image">  <p>Source: <a href="https://unsplash.com/photos/green-and-black-circuit-board-c3YpscwJb04">Harrison Broadbent</a></p>  </div>  </div>  <div class="image-table-row">  <div class="image-with-credit-box top-gap code-demo">  <div class="video-box">  <iframe class="max-width code-video" src="https://www.youtube.com/embed/v9E7Xqkuebs" allow="fullscreen"></iframe>  </div>  <p>Demonstration of a program I wrote.<br>The simulation is formed by several thousand 'agents' that turn towards each other based on a sensor, the number of agents near itself and some movement parameters.<br>It was created using C++ for the code, OpenGL to interface with the GPU and ImGUI for the UI in the top corner.</p>  </div>  </div>  </div>  <div class="text-block right-block">  <!-- Credit (explained in document): Robert Hickman - https://stackoverflow.com/questions/38530800/jumping-to-a-different-part-of-the-same-page-with-a-margin -->  <h2 class="section-head"><span id="about-me-jump" class="jump-top"><span class="jump-bottom">All about me</span></span></h2>  <p>  Hello and thank for you reading through my website!<br><br>As is probably already know, my name is Jacob Mounce-Stephens, a nearly 21 technology, mathematics and science enthusiast.<br>Throughout my entire life I have always been a very logical thinker and so naturally was drawn towards various scientific and mathematic fields. My relationship with some of these fields is described below:  </p>  <hr>  <h3 class="section-subhead">My educational interests</h3>  <ul>  <li>Mathematics</li>  <li class="no-list-style">  <ul>  <li>I have been in love with most forms of mathematics since I was around 10 years old way back in primary school</li>  <li>I am always willing to learn new formulas and topics to broaden my understanding of all mathematics although my primary focus is in pure mathematics</li>  <li>My weakest topics are probability and statistics by quite a bit</li>  <li>In my high school, I was one of only 2 students to study extension 2 mathematics in my graduation year</li>  <li>After graduating I still take time to research mathematics and improve my abilities. A large part of this is applying mathematics to graphical programming applications</li>  </ul>  </li>  <li class="no-list-style"><br></li>  <li>Science</li>  <li class="no-list-style">  <ul>  <li>I have loved science for as long as I can remember. I have always found it incredible to see that science, and mathematics for that note, is the culmination of thousands of years of human history all coming together to produce incredible machines and all sorts of useful items for everyday application</li>  <li>Science itself is an incredible broad topic and thus I need to mention that my particular interests and abilities are based in chemistry and physics</li>  <li>I love chemistry so much that I have spent the time to learn the entirety of the periodic table from memory and am able to list of all elements in order with ease</li>  </ul>  </li>  <li class="no-list-style"><br></li>  <li>Computer science</li>  <li class="no-list-style">  <ul>  <li>Ever since I had access to my first computer a long time ago, I have always been absolutely fascinated by them. Even today, I still sometimes think about how incredible, and impossible, it seems that humans have managed to trick rocks into thinking by shoving electricity into them in a genius way</li>  <li>Since around year 8 of high school, I have been a mostly self-taught programmer. First beginning with Python then switching my main language over to C++ in around year 11. Since highschool I am now a student of Charles Sturt University (CSU) to hopefully refine some knowledge I might be lacking from being self taught</li>  <li>Along with Python and C++, I have also explored HTML, CSS and JavaScript when I learned how to make basic websites and since then I have also learned a bit about Assembly and Java</li>  <li>My main interest in computer science lies with graphical programming and utilising the GPU to render images. As such, I have learned how to use the graphics API OpenGL and have been working on my own API to interface with OpenGL to make the process easier</li>  </ul>  </li>  </ul>  <hr>  <h3 class="section-subhead">My hobbies</h3>  <p>  While I was a student at primary and high school, each and every week I would participate in ten-pin bowling at the local bathurst bowling center. Over the course of the years I played I slowly improved until I eventually stopped playing after highschool. At my best, my average for each game was 145 out of 300 pins with my best game ever being 225. I even participated in a few tournaments with some of my friends from the bathurst center.  <br><br>  Since then, when I am not studying at Uni or working, I spend my time largely either programming or playing puzzle or automation games.<br>  My main programming focus for a while has been working on creating and improving a graphics API I have been writing that sits on top of OpenGL to streamline the process of writing GPU driven programs which has been extremely useful in teaching me all about how video games and general graphics are created on computers.<br>  As for games I play, like stated above, I largely play puzzle games but also thoroughly enjoy games such as factory and satisfactory for their factory construction gameplay. These two games in particular are very enjoyable because I get to plan and design a factory system and then get to sit back and watch everything I have created complete tasks for me without any more manual work.  <br><br>  There is almost never a time I am not listening to music. At the moment my 3 top artists are (in no particular order):  </p>  <ol>  <li>Woodkid</li>  <li>Lena Raine</li>  <li>Meganeko</li>  </ol>  </div>  </div>  <div class="flex-display">  <div class="text-block left-block">  <h2 class="section-head"><span id="education-jump" class="jump-top"><span class="jump-bottom">My education</span></span></h2>  <p>  Going over my education is quite simple and this section will also largely be mentioned on my resume page however with less additional details and as more of a simple list. In terms of my education as a whole, I consider primary school to be a place just to learn the fundamentals of everything and to begin discovering what it is you are interested in. This is definately where I discovered my interest in science, mathematics and engineering. However, as it was primary school, I didn't gain any knowledge that wouldn't be considered trivial now that I'm older.<br><br>  High school, on the other hand, is where I began to fully explore my interests due to more difficult subjects as well as the ability to choose electives. Throughout my later years of highschool, the main electives I completed are:  </p>  <ul>  <li>Woodworking (2 years) - I studied wood work throughout years 9-11. This was my first introduction to the process of desinging and creating something physical with my own hands while utilising various machines and tools</li>  <li>Design (1 year) - I studied design in year 11. Here I was able to learn about the skills required to design and market products and to explore the usefulness of the product and if it is even necessary to be created. Unfortunately, I struggled with the subject more than I had hoped which demonstrated to me that while I am capable of desinging the look and aestetic of a product, it is not my strong suit</li>  <li>Software developmenr (4 years) - I studied software from years 9-12. I very much enjoyed my software courses across the 4 years I studied it however due to my dedication to self study during that period, I was largely already prepared and knowledgeable of content covered in class</li>  <li>Mathematics (Advanced, Ext 1 & Ext 2) - I studied mathematics throughout the entirety of highschool, always being in the most difficult class that was available to me. This was an extremely valuable experience to me and I learned so much more than I ever expected, especially in extension 2 maths during year 12</li>  <li>Chemistry (2 years) - In years 11 and 12 I studied chemistry as one of my science subjects. I loved these lessons and learning about the ideas that form the entire universe</li>  <li>Physics (2 years) - Physics was also in year 11 and 12 and helped me learn about and appreciate a lot of the work that goes into modern constructions. This includes everything from how bridges are made to remain stable to how cars can travel around corners quickly to how electricity travels through circuity. This subject really broadened my knowledge in many different fields</li>  </ul>  </div>  <div class="image-section">  <div class="image-with-credit-box">  <img src="images/MounceStephensJ\_ITC293\_A3\_Chemistry\_Flask.jpg" alt="Image of a chemistry flask and periodic table" class="website-image chemistry-image">  <p>Source:<a href="https://unsplash.com/photos/clear-glass-pitcher-on-white-paper-ohrhLVISJ1o">Vedrana Filipović</a></p>  </div>  </div>  </div>  <div class="flex-display">  <div class="text-block right-block">  <h2 class="section-head"><span id="electric-vehicles-jump" class="jump-top"><span class="jump-bottom">My relation with electric vehicles</span></span></h2>  <p>  As described above in great depth, my interests in life all revolve around technology, mathematics and science. In a sense, electric vehicles are the combination of these three fields all into one. The car itself is a product of technology and engineering, designed and produced through mathematics and powered by scientific research and work. As a result of these factors, it is natural that electric vehicles would spark inspiritation in me.  <br><br>  Although currently I am inexperienced in the field of creating such a machine, I think the experience of working on and developing new engine and power solutions for electric vehicles would be an invaluable experience. Futhermore, I have the motiviation, drive and interest to learn about these wonderful pieces of technology.  </p>  </div>  </div>  </div>    <hr>  <footer class="page-footer">  <p>&copy; 2024 Jacob Mounce-Stephens. All rights reserved. All images/videos are original works unless otherwise stated.<br>Phone and Email icon in header are designed by <a href="www.freepik.com">Freepik</a>.</p>  </footer>  </body>  </html> |

## Validation

A screenshot of a computer

Description automatically generated

## Personal Reflection

As described in the Index reflection, I do not have many comments to say about each individual page, however, here is my brief reflection for this page.

Overall, the process of creating the ‘about me’ page was very smooth. When I was planning it, I decided to swap the order of the columns so that the first text section would appear on the right instead of the left like the index page. This decision was made to help distinguish the two pages and keep the website feeling different on each page despite visually appearing extremely similar.  
 Furthermore, this page is where I better thought out who to write subheadings for text sections. This meant that I had to plan a style for them that would visually tie in with the heading styles while also keeping them unique. This was also an opportunity for me to experiment more with ‘text-decorations’ to fulfill another part of the assignment requirements.   
 Aside from what I described above, this page mostly came down to modifying the navigation bar from the first page and then adding in new text, images, and some new styles.

# MounceStephensJ\_ITC293\_A3\_Resume.html

## Storyboard

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Page title | MounceStephensJ\_ITC293\_A3\_Resume.html | | Screen ID | 2.2 | Date | 1/6/2024 |
|  | | | Elements | | | |
| Graphics | Basic icons will be used in the header of each page. Other images used will be relevant to an accompanying paragraph to enhance reading experience. | | |
| Text | The text on this page will be of a simple resume and thus all information that might be necessary for a resume. | | |
| Audio/Video | None | | |
| Notes | - This website is designed using the CSS box model in mind to position elements.  - This page utilises a single column for content and does not contain any images. | | |
| Description | | Resume page. | | | | |
| Content | | A basic resume about myself that informs the reader of who I am, what my work history is, what my educational achievements are and hopefully what I can offer to their company. | | | | |
| Interactions | | Website navigation links: between pages and around the same page.  Phone and email links. | | | | |
| Media Creation | | Images not marked with a source are fully created by me and are original works. Images marked with “Source:” are derived from a website that hosts free use images licensed under Creative Commons. Any image modifications are made through CSS. | | | | |
| Navigation | | Navigation is made possible through the navigation bar at the top of the screen. It lists all pages on the website and also highlights the page the user is currently on. Furthermore, there are phone and email links to assist the user.  Additionally, this page contains a second navigation bar, below the first, which allows the user to navigate between headings on the current page easier. | | | | |

## Code

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| <!DOCTYPE html>  <html lang="en">  <head>  <!--  ITC293 - Introduction to the web  Assessment 4 - HTML, CSS, Design and Java Script    Jacob Mounce-Stephens  1/6/2024  The page contains a basic resume of myself.  -->  <meta charset="utf-8">  <meta name="author" content="Jacob Mounce-Stephens">  <meta name="description" content="Portfolio website resume page">  <meta name="keywords" content="Portfolio, Electric cars">  <title>My Portfolio - Resume</title>  <link rel="stylesheet" href="css/MounceStephensJ\_ITC293\_A3\_CSS.css">  <link rel="icon" href="images/MounceStephensJ\_ITC293\_A3\_Transport\_Icon.png">  </head>  <body class="page-body">  <!-- Div contains the website header -->  <div class="page-header">  <div class="name-bar">  <h1>Jacob Mounce-Stephens</h1>  <div class="phone-bar">  <img src="images/MounceStephensJ\_ITC293\_A3\_Phone\_Icon.png" alt="Phone icon" class="header-image">  <a href="tel:0118-999-881-999-119-725-3">0118 999 881 999 119 725 3</a>  </div>  <div class="email-bar">  <img src="images/MounceStephensJ\_ITC293\_A3\_Email\_Icon.png" alt="Email icon" class="header-image">  <a href="mailto:somename@somedomain">somename@somedomain</a>  </div>  </div>  <div class="logo-bar">  <img src="images/MounceStephensJ\_ITC293\_A3\_Transport\_Icon.png" alt="Website logo. An electric car." class="header-logo">  <p><a href="https://www.flaticon.com/free-icons/transportation" title="transportation icons">Transportation icons created by msidiqf - Flaticon</a></p>  </div>  </div>  <!-- Div contains both the internal and external navigation bars -->  <div class="navigation-div">  <div class="navigation-bar">  <ul>  <li><a href="MounceStephensJ\_ITC293\_A3\_Index.html">Index</a></li>  <li><a href="MounceStephensJ\_ITC293\_A3\_About.html">About</a></li>  <li class="active">Resume</li>  <li><a href="MounceStephensJ\_ITC293\_A3\_Skill\_1\_Communication.html">Communication Skills</a></li>  <li><a href="MounceStephensJ\_ITC293\_A3\_Skill\_2\_Engineering.html">Engineering Skills</a></li>  <li><a href="MounceStephensJ\_ITC293\_A3\_Skill\_3\_Problem\_Solving.html">Analytical Skills</a></li>  <li><a href="MounceStephensJ\_ITC293\_A3\_Skill\_4\_Web\_Skills.html">Web Skills</a></li>  </ul>  </div>  <div class="internal-navigation">  <ul>  <li><a href="#intro-jump">Introduction</a></li>  <li><a href="#career-jump">Career History</a></li>  <li><a href="#education-jump">Education</a></li>  <li><a href="#interests-jump">Interests and Skills</a></li>  <li><a href="#references-jump">References</a></li>  </ul>  </div>  </div>  <div class="about-body">  <div class="text-block center-block">  <!-- Credit (explained in document): Robert Hickman - https://stackoverflow.com/questions/38530800/jumping-to-a-different-part-of-the-same-page-with-a-margin -->  <h2 class="section-head"><span id="intro-jump" class="jump-top"><span class="jump-bottom">Introduction</span></span></h2>  <p>  I am a highly self-motivated, focused worker with an eye for detail. I am always extremely determined to do my best work and always look to go beyond what is expected. I specialise in working with computers, solving scientific or mathematical problems and fixing technology and technological problems.  </p>  </div>  <div class="text-block center-block">  <h2 class="section-head"><span id="career-jump" class="jump-top"><span class="jump-bottom">Career History</span></span></h2>  <h3 class="section-subhead">Mechanic intern for veryRealMechanicCompany</h3>  <p>  02/2022 - 08/2023<br>  I worked as an intern where I learned to perform very basic repairs and maintenance on cars and motorbikes.<br>  </p>  <h4>Responsibilities</h4>  <ul>  <li>Assist with repairs</li>  <li>Monitor part stock and order more parts when required</li>  <li>Speak to customers to understand their concerns and explain solutions</li>  </ul>  <h4>Achievements</h4>  <ul>  <li>Intern of the year for 2022</li>  </ul>  <h3 class="section-subhead">Electrician apprentice for aDefinatelyRealElectrian</h3>  <p>  10/2023-Current<br>  I am currently working as an apprentice electrician learning how to install and repair electrical systems in houses.<br>  </p>  <h4>Responsibilities</h4>  <ul>  <li>Ensure correct safety on work site</li>  <li>Install basic electrical circuits such as household lighting</li>  <li>Be able to identify problematic points in an already constructed circuit</li>  <li>Be able to design basic circuits for installation</li>  </ul>  </div>  <div class="text-block center-block">  <h2 class="section-head"><span id="education-jump" class="jump-top"><span class="jump-bottom">Education</span></span></h2>  <h3 class="section-subhead">Bathurst High Campus - Dension College</h3>  <p>  I graduated from Bathurst High Campus in 2021, completing year 12 and achieving an ATAR score of 94.45. The subjects I studied in my graduation year were:  </p>  <table class="mark-table">  <tr>  <th>Subject</th><th>Grade</th><th>Mark</th>  </tr>  <tr>  <td>English (standard)</td><td>C</td><td>70%</td>  </tr>  <tr>  <td>Mathematics (Ext. 1)</td><td>A</td><td>90%</td>  </tr>  <tr>  <td>Mathematics (Ext. 2)</td><td>A</td><td>93%</td>  </tr>  <tr>  <td>Chemistry</td><td>A</td><td>85%</td>  </tr>  <tr>  <td>Phsyics</td><td>A</td><td>88%</td>  </tr>  <tr>  <td>Software Design & Development</td><td>A</td><td>94%</td>  </tr>  </table>  <p>  Other noteable achievements include:  </p>  <ul>  <li>Award for mathematics</li>  <li>Award for HSIE</li>  <li>High Distinction in Australian mathematics competition</li>  <li>Award for chemistry</li>  <li>High achiever in online programming competion</li>  </ul>  </div>  <div class="text-block center-block">  <h2 class="section-head"><span id="interests-jump" class="jump-top"><span class="jump-bottom">Personal Interests and Skills</span></span></h2>  <p>  Despite having already graduated from high school, I continue to pursue study into various fields of mathematics as well as continue to expand my knowledge of programming. I am quite competent in the programming languages Python and C++ having studied both for over 6 years. I also enjoy tinkering with electronics and have made several micro robots using Raspberry PIs.<br>  I have performed maintenance on my own personal car for the last 6 years and designed a custom calculator using breadboards and wires.  </p>  </div>  <div class="text-block center-block">  <h2 class="section-head"><span id="references-jump" class="jump-top"><span class="jump-bottom">References</span></span></h2>  <ol class="upper-roman-list">  <li>Steve steveson - steve@steve.com.steve - Manager of steves</li>  <li>John johnson - john@john.com.john - Manager of not steves</li>  <li>Dave daveson - dave@dave.com.dave - Owner of a probably real shop</li>  <li>Tristan tristianson - trisitan@tristan.com.tristian - Owner of a shop with a longer name than the other ones</li>  </ol>  </div>  </div>  <hr>  <footer class="page-footer">  <p>&copy; 2024 Jacob Mounce-Stephens. All rights reserved. All images/videos are original works unless otherwise stated.<br>Phone and Email icon in header are designed by <a href="www.freepik.com">Freepik</a>.</p>  </footer>  </body>  </html> |

## Validation

A screenshot of a computer

Description automatically generated

## Personal Reflection

As described in the Index reflection, I do not have many comments to say about each individual page, however, here is my brief reflection for this page.

The resume page was extremely straightforward for me. I quickly decided that I did not think images or video would be appropriate for a resume page and so decided to remove the second column, widen the first column and then align all content to the centre of the page rather than either edge. This change was also useful for helping to distinguish the page from the previous ones to help give each page its own identity.  
 Aside from those details, this page was mostly taking a resume template I found and filling in the details of it while applying the previously created styles I used for my first two pages.

# MounceStephensJ\_ITC293\_A3\_Skill\_1\_COMMUNICATION.html

## Storyboard

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| --- | --- | --- | --- | --- | --- | --- |
| Page title | MounceStephensJ\_ITC293\_A3\_Skill\_1\_Communication.html | | Screen ID | 2.3 | Date | 1/6/2024 |
|  | | | Elements | | | |
| Graphics | Basic icons will be used in the header of each page. | | |
| Text | The text on this page will outline some basic skills and abilities I have in relation to communication. | | |
| Audio/Video | None | | |
| Notes | - This website is designed using the CSS box model in mind to position elements.  - This page utilises a single column for content and does not contain any images. | | |
| Description | | Communication skills page. | | | | |
| Content | | A brief page that described some of my talents and capabilities regarding communication. This page covers three main topics: leadership, teamwork and general communication. | | | | |
| Interactions | | Website navigation links: between pages and around the same page.  Phone and email links. | | | | |
| Media Creation | | Images not marked with a source are fully created by me and are original works. Images marked with “Source:” are derived from a website that hosts free use images licensed under Creative Commons. Any image modifications are made through CSS. | | | | |
| Navigation | | Navigation is made possible through the navigation bar at the top of the screen. It lists all pages on the website and also highlights the page the user is currently on. Furthermore, there are phone and email links to assist the user. | | | | |

## Code

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| --- |
| <!DOCTYPE html>  <html lang="en">  <head>  <!--  ITC293 - Introduction to the web  Assessment 4 - HTML, CSS, Design and Java Script    Jacob Mounce-Stephens  1/6/2024  This page contains a short explanation of some of my  communication skills.  -->  <meta charset="utf-8">  <meta name="author" content="Jacob Mounce-Stephens">  <meta name="description" content="Portfolio website web skills page">  <meta name="keywords" content="Portfolio, Electric cars">  <title>My Portfolio - Communication Skills</title>  <link rel="stylesheet" href="css/MounceStephensJ\_ITC293\_A3\_CSS.css">  <link rel="icon" href="images/MounceStephensJ\_ITC293\_A3\_Transport\_Icon.png">  </head>  <body class="page-body">  <!-- Div contains the website header -->  <div class="page-header">  <div class="name-bar">  <h1>Jacob Mounce-Stephens</h1>  <div class="phone-bar">  <img src="images/MounceStephensJ\_ITC293\_A3\_Phone\_Icon.png" alt="Phone icon" class="header-image">  <a href="tel:0118-999-881-999-119-725-3">0118 999 881 999 119 725 3</a>  </div>  <div class="email-bar">  <img src="images/MounceStephensJ\_ITC293\_A3\_Email\_Icon.png" alt="Email icon" class="header-image">  <a href="mailto:somename@somedomain">somename@somedomain</a>  </div>  </div>  <div class="logo-bar">  <img src="images/MounceStephensJ\_ITC293\_A3\_Transport\_Icon.png" alt="Website logo. An electric car." class="header-logo">  <p><a href="https://www.flaticon.com/free-icons/transportation" title="transportation icons">Transportation icons created by msidiqf - Flaticon</a></p>  </div>  </div>  <!-- Div contains both the internal and external navigation bars -->  <div class="navigation-div">  <div class="navigation-bar">  <ul>  <li><a href="MounceStephensJ\_ITC293\_A3\_Index.html">Index</a></li>  <li><a href="MounceStephensJ\_ITC293\_A3\_About.html">About</a></li>  <li><a href="MounceStephensJ\_ITC293\_A3\_Resume.html">Resume</a></li>  <li class="active">Communication Skills</li>  <li><a href="MounceStephensJ\_ITC293\_A3\_Skill\_2\_Engineering.html">Engineering Skills</a></li>  <li><a href="MounceStephensJ\_ITC293\_A3\_Skill\_3\_Problem\_Solving.html">Analytical Skills</a></li>  <li><a href="MounceStephensJ\_ITC293\_A3\_Skill\_4\_Web\_Skills.html">Web Skills</a></li>  </ul>  </div>  <div class="internal-navigation">  <ul>  <li><a href="#Communication-jump">Communication Skills</a></li>  </ul>  </div>  </div>  <div class="about-body">  <div class="flex-display">  <div class="text-block center-block">  <!-- Credit (explained in document): Robert Hickman - https://stackoverflow.com/questions/38530800/jumping-to-a-different-part-of-the-same-page-with-a-margin -->  <h2 class="section-head"><span id="Communication-jump" class="jump-top"><span class="jump-bottom">Communication Skills</span></span></h2>  <p>  The three primary traits of effective communication skills I possess are: leadership, teamwork and general communication.  </p>  <h3 class="section-subhead">Leadership</h3>  <p>  Over the course of my educational and professional career I have had several opportunities to develop leadership skills. The main cases where I have had such experience is during my school career where I have had to work on group projects and taken up the role of leader and organiser for the group when I was the most experienced with the subject matter. This primarily was during software development projects where I had to help lead and organise my group while also assisting them with learning new techniques for software development as they were less experienced than me. These tasks gave me valuable experience in learning how to lead a small team to work on a project.  <br>  A second example of leadership is the cases where I have had to teach new staff how to perform certain jobs at my workplace. At my current place of employement I have had training in the majority of the work that gets completed across every department in the business. As such, I have often been responsible for teaching new staff members how certain processes work and what work we do. These experiences have also helped to improve my leadership skills in a professional situation.  </p>  <h3 class="section-subhead">Teamwork</h3>  <p>  Teamwork has been an extremely important part of my life both personally and professional. Throughout every job that I have done so far teamwork has been extremely important for ensuring all work was completed in a timely manner and to a high standard. This has involved working with other crew members working in the same department as me but also collaborating with crew members from other departments at the same time while I have to had coordinate between the two. Futhermore, very similarly to above, completing group projects for school helped to initially teach me what working as a team meant and showed me how to effectively communicate with my time members to ensure everybody can comfortably work together. When combined, all these experiences have helped improve my teamwork abilities.  </p>  <h3 class="section-subhead">General Communication</h3>  <p>  Life in general is all about communication between yourself and others.  <br>  As a result, throughout my entire life I have been learning how to communicate with others both in the moment and in the future, in non-verbal formats such as writing. Spending 2 years working in customer service helped me develop the necessary skills to effectively communicate with people I have met for the first time. Additionally, this experience helped teach me how to navigate troublesome communication with customers.  <br>  Additionally, once again my school life has had a major impact on my general communication. Presenting various projects to my class and consulting with teachers helped to build my group communication and one-on-one communication skills. Futhermore, being on both sides of a meeting, as both the primary speaker and an enquiring audience member, I have learned a lot about how communication between two people is supposed to work in a respectful and polite way. All of these experiences have provided me with the skills and abilities for effective general communication.  </p>  </div>  </div>  </div>  <hr>  <footer class="page-footer">  <p>&copy; 2024 Jacob Mounce-Stephens. All rights reserved. All images/videos are original works unless otherwise stated.<br>Phone and Email icon in header are designed by <a href="www.freepik.com">Freepik</a>.</p>  </footer>  </body>  </html> |

## Validation

A screenshot of a computer

Description automatically generated

## Personal Reflection

This page and the next two do not have much to comment on. By the point of creating them, most of the CSS and website design were already completed and finalised. As a result, these pages were just a case of essentially copying a previously made page and swapping out the information contained within them, adjusting any styling and formatting where appropriate.

# MounceStephensJ\_ITC293\_A3\_Skill\_2\_Engineering.html

## Storyboard

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Page title | MounceStephensJ\_ITC293\_A3\_Skill\_2\_Engineering.html | | Screen ID | 2.4 | Date | 1/6/2024 |
|  | | | Elements | | | |
| Graphics | Basic icons will be used in the header of each page. Other images used will be relevant to an accompanying paragraph to enhance reading experience. | | |
| Text | The text on this page will outline some basic skills and abilities I have in relation to engineering. | | |
| Audio/Video | None | | |
| Notes | - This website is designed using the CSS box model in mind to position elements.  - The general layout of this page uses two columns, one containing text and the other containing an image(s). | | |
| Description | | Engineering skills page. | | | | |
| Content | | A brief page that described some of my talents and capabilities regarding engineering. It describes previous education experiences and background knowledge. | | | | |
| Interactions | | Website navigation links: between pages and around the same page.  Phone and email links. | | | | |
| Media Creation | | Images not marked with a source are fully created by me and are original works. Images marked with “Source:” are derived from a website that hosts free use images licensed under Creative Commons. Any image modifications are made through CSS. | | | | |
| Navigation | | Navigation is made possible through the navigation bar at the top of the screen. It lists all pages on the website and also highlights the page the user is currently on. Furthermore, there are phone and email links to assist the user. | | | | |

## Code

|  |
| --- |
| <!DOCTYPE html>  <html lang="en">  <head>  <!--  ITC293 - Introduction to the web  Assessment 4 - HTML, CSS, Design and Java Script    Jacob Mounce-Stephens  1/6/2024  This page contains a short explanation of some of my  engineering skills.  -->  <meta charset="utf-8">  <meta name="author" content="Jacob Mounce-Stephens">  <meta name="description" content="Portfolio website web skills page">  <meta name="keywords" content="Portfolio, Electric cars">  <title>My Portfolio - Web Skills</title>  <link rel="stylesheet" href="css/MounceStephensJ\_ITC293\_A3\_CSS.css">  <link rel="icon" href="images/MounceStephensJ\_ITC293\_A3\_Transport\_Icon.png">  </head>  <body class="page-body">  <!-- Div contains the website header -->  <div class="page-header">  <div class="name-bar">  <h1>Jacob Mounce-Stephens</h1>  <div class="phone-bar">  <img src="images/MounceStephensJ\_ITC293\_A3\_Phone\_Icon.png" alt="Phone icon" class="header-image">  <a href="tel:0118-999-881-999-119-725-3">0118 999 881 999 119 725 3</a>  </div>  <div class="email-bar">  <img src="images/MounceStephensJ\_ITC293\_A3\_Email\_Icon.png" alt="Email icon" class="header-image">  <a href="mailto:somename@somedomain">somename@somedomain</a>  </div>  </div>  <div class="logo-bar">  <img src="images/MounceStephensJ\_ITC293\_A3\_Transport\_Icon.png" alt="Website logo. An electric car." class="header-logo">  <p><a href="https://www.flaticon.com/free-icons/transportation" title="transportation icons">Transportation icons created by msidiqf - Flaticon</a></p>  </div>  </div>  <!-- Div contains both the internal and external navigation bars -->  <div class="navigation-div">  <div class="navigation-bar">  <ul>  <li><a href="MounceStephensJ\_ITC293\_A3\_Index.html">Index</a></li>  <li><a href="MounceStephensJ\_ITC293\_A3\_About.html">About</a></li>  <li><a href="MounceStephensJ\_ITC293\_A3\_Resume.html">Resume</a></li>  <li><a href="MounceStephensJ\_ITC293\_A3\_Skill\_1\_Communication.html">Communication Skills</a></li>  <li class="active">Engineering Skills</li>  <li><a href="MounceStephensJ\_ITC293\_A3\_Skill\_3\_Problem\_Solving.html">Analytical Skills</a></li>  <li><a href="MounceStephensJ\_ITC293\_A3\_Skill\_4\_Web\_Skills.html">Web Skills</a></li>  </ul>  </div>  <div class="internal-navigation">  <ul>  <li><a href="#engineering-jump">Engineering Skills</a></li>  </ul>  </div>  </div>  <div class="about-body">  <div class="flex-display">  <div class="text-block left-block">  <!-- Credit (explained in document): Robert Hickman - https://stackoverflow.com/questions/38530800/jumping-to-a-different-part-of-the-same-page-with-a-margin -->  <h2 class="section-head"><span id="engineering-jump" class="jump-top"><span class="jump-bottom">Engineering Skills</span></span></h2>  <p>  I have a lot of the necessary backing to become a successful engineer. My primary fields of study throughout my life have been in mathematics and science which together provide a very strong foundation for the field of engineering. Additionally, I hold myself to a very high standard ensuring that I am putting my best work forward, an essential skill for engineering where the reliability and safety of the end product is crucial for success.<br><br>  During my educational career I have also spent some time studying architecture and basic, small scale engineering. These two experiences are extremely important to me. While studying architecture I learned about much of the process which comes with the foundational design process of any design. This includes learning about investigating the need for a new design as well as waht components and features a successful design might include. Futhermore, trhis study explored the process of designing and forming a blueprint and plan before prototyping and implementing those plans. This experience providing me with many of the skills and knowledge required to navigate the planning and research components of any planning process, an essential skill for any engineering endevour.<br>  Futhermore, I studied engineering which in combination with my further study into physics has provided me with much of the foundational knowledge required to know what to look for during an engineering process. For example, when it comes to electrical vehicles there is much to consider. There are of course obvious things to consider such as enginer construction and positioning but then also the less obvious things like drag reduction via the shape of the vehicle and weight distribution.  </p>  </div>  <div class="image-section">  <div class="image-with-credit-box">  <img src="images/MounceStephensJ\_ITC293\_A3\_Architecture\_Example.jpg" alt="A building blueprint" class="website-image">  <p>Source: <a href="https://www.freepik.com/free-vector/illustration-house-planning\_2807797.htm#fromView=search&page=1&position=30&uuid=d8c649cf-f7df-4327-979b-f9fad1a77fcc">rawpixel.com</a></p>  </div>  </div>  </div>  </div>  <hr>  <footer class="page-footer">  <p>&copy; 2024 Jacob Mounce-Stephens. All rights reserved. All images/videos are original works unless otherwise stated.<br>Phone and Email icon in header are designed by <a href="www.freepik.com">Freepik</a>.</p>  </footer>  </body>  </html> |

## Validation

A screenshot of a computer

Description automatically generated

## Personal Reflection

The page has the same reflection as the previous page.

# MounceStephensJ\_ITC293\_A3\_Skill\_3\_problem\_solving.html

## Storyboard

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Page title | MounceStephensJ\_ITC293\_A3\_Skill\_3\_Problem\_Solving.html | | Screen ID | 2.5 | Date | 1/6/2024 |
|  | | | Elements | | | |
| Graphics | Basic icons will be used in the header of each page. | | |
| Text | The text on this page will outline some basic skills and abilities I have in relation to problem solving. | | |
| Audio/Video | None | | |
| Notes | - This website is designed using the CSS box model in mind to position elements.  - The general layout of this page uses two columns, one containing text and the other containing an image(s). | | |
| Description | | Problem solving skills page. | | | | |
| Content | | A brief page that described some of my talents and capabilities regarding problem solving. Referred to on the page and on other pages as “analytical skills” as that name is shorter than “problem solving skills.” Includes information about mathematical, scientific and programming skills. | | | | |
| Interactions | | Website navigation links: between pages and around the same page.  Phone and email links. | | | | |
| Media Creation | | Images not marked with a source are fully created by me and are original works. Images marked with “Source:” are derived from a website that hosts free use images licensed under Creative Commons. Any image modifications are made through CSS. | | | | |
| Navigation | | Navigation is made possible through the navigation bar at the top of the screen. It lists all pages on the website and also highlights the page the user is currently on. Furthermore, there are phone and email links to assist the user. | | | | |

## Code

|  |
| --- |
| <!DOCTYPE html>  <html lang="en">  <head>  <!--  ITC293 - Introduction to the web  Assessment 4 - HTML, CSS, Design and Java Script    Jacob Mounce-Stephens  1/6/2024  This page contains a short explanation of some of my  problem solving skills.  -->  <meta charset="utf-8">  <meta name="author" content="Jacob Mounce-Stephens">  <meta name="description" content="Portfolio website web skills page">  <meta name="keywords" content="Portfolio, Electric cars">  <title>My Portfolio - Web Skills</title>  <link rel="stylesheet" href="css/MounceStephensJ\_ITC293\_A3\_CSS.css">  <link rel="icon" href="images/MounceStephensJ\_ITC293\_A3\_Transport\_Icon.png">  </head>  <body class="page-body">  <!-- Div contains the website header -->  <div class="page-header">  <div class="name-bar">  <h1>Jacob Mounce-Stephens</h1>  <div class="phone-bar">  <img src="images/MounceStephensJ\_ITC293\_A3\_Phone\_Icon.png" alt="Phone icon" class="header-image">  <a href="tel:0118-999-881-999-119-725-3">0118 999 881 999 119 725 3</a>  </div>  <div class="email-bar">  <img src="images/MounceStephensJ\_ITC293\_A3\_Email\_Icon.png" alt="Email icon" class="header-image">  <a href="mailto:somename@somedomain">somename@somedomain</a>  </div>  </div>  <div class="logo-bar">  <img src="images/MounceStephensJ\_ITC293\_A3\_Transport\_Icon.png" alt="Website logo. An electric car." class="header-logo">  <p><a href="https://www.flaticon.com/free-icons/transportation" title="transportation icons">Transportation icons created by msidiqf - Flaticon</a></p>  </div>  </div>  <!-- Div contains both the internal and external navigation bars -->  <div class="navigation-div">  <div class="navigation-bar">  <ul>  <li><a href="MounceStephensJ\_ITC293\_A3\_Index.html">Index</a></li>  <li><a href="MounceStephensJ\_ITC293\_A3\_About.html">About</a></li>  <li><a href="MounceStephensJ\_ITC293\_A3\_Resume.html">Resume</a></li>  <li><a href="MounceStephensJ\_ITC293\_A3\_Skill\_1\_Communication.html">Communication Skills</a></li>  <li><a href="MounceStephensJ\_ITC293\_A3\_Skill\_2\_Engineering.html">Engineering Skills</a></li>  <li class="active">Analytical Skills</li>  <li><a href="MounceStephensJ\_ITC293\_A3\_Skill\_4\_Web\_Skills.html">Web Skills</a></li>  </ul>  </div>  <div class="internal-navigation">  <ul>  <li><a href="#math-jump">Math Skills</a></li>  <li><a href="#science-jump">Scientific skills</a></li>  <li><a href="#programming-jump">Programming skills</a></li>  </ul>  </div>  </div>  <div class="about-body">  <div class="flex-display">  <div class="image-section">  <div class="image-with-credit-box">  <img src="images/MounceStephensJ\_ITC293\_A3\_Math\_Art.jpg" alt="Math equations" class="website-image">  <p>Source: <a href="https://www.freepik.com/free-vector/scientific-formulas-chalkboard\_7456461.htm#fromView=search&page=1&position=0&uuid=fc077bf1-a0c0-4b08-81e8-66b76f000a84">Freepik</a></p>  </div>  </div>  <div class="text-block right-block">  <!-- Credit (explained in document): Robert Hickman - https://stackoverflow.com/questions/38530800/jumping-to-a-different-part-of-the-same-page-with-a-margin -->  <h2 class="section-head"><span id="math-jump" class="jump-top"><span class="jump-bottom">Mathematical Skills</span></span></h2>  <p>  As described on my 'about' page, I studied extension 1 & 2 mathematics at highschool. As well as discrete and computer driven mathematics at university.<br>  As a result of these expriences, I am knowledgeable of a wide range of mathematical topics such as, but not limited to:  </p>  <ul>  <li>Statistics</li>  <li>Probabilities</li>  <li>Algebra</li>  <li>Calculus - Basic & advanced, derivatives & integration</li>  <li>Trigonometry</li>  <li>Induction</li>  <li>Optimisation</li>  <li>Transcendental arithmetic</li>  <li>Function analysis</li>  <li>Complex arithmetic</li>  <li>Analytical continuation</li>  <li>Vector & Matrix operations</li>  <li>Mechanics</li>  </ul>  <p>  Utilisation of these skills allowed me to achieve top marks in each math subject I studied in highschool and has given me the skills necessary to have the confidence to apporach almost all common mathematical problems, and the drive to learn how to solve problems I do not know how to approach.<br>  So far, the main portions of math I have utilised are related to vectors and matrices due to their very wide application to computer graphics and computer programming in general.  </p>  </div>  </div>  <div class="flex-display">  <div class="text-block left-block">  <h2 class="section-head"><span id="science-jump" class="jump-top"><span class="jump-bottom">Scientific Skills</span></span></h2>  <p>  As a large fan of mathematics, I naturally also have a strong passion and interest into various forms of science but my primary interests lie in physics, chemistry and astronomy.<br>  </p>  <h3 class="section-subhead">Physics</h3>  <p>  Physics has always been my primary interest in the vast world of scientific research and information. I have had opporunties to explore various sub-fields such as mechanics, astrophysics, electromagnetic radiation and all sides of electricity. Most notably, I have spent a lot of time studying the mechanics of what allows things to move and the forces required in such situations providing me with insight into the mechanics of vehicles and optimising the power they require. Futhermore, research into electrical circuits, systems and particularly engines and motors as well as the properties of electricity and electrical circuits has given me insight into how such systems are constructed and operated.<br>  As a result, I have a lot of background knowledge into the principles and mechanisms that are involved in much of what makes electric vehicles possible and am always ready to learn more to expand my knowledge.  </p>  <h3 class="section-subhead">Chemistry</h3>  <p>  Chemistry was my other main science subject that I studied. It provided me with a lot of knowledge about atoms, molecules and the interactions between them. While largely not necessarily related to electric vehicles, at least not as much as physics, it has provided some useful insight and knowledge I otherwise would have lacked. For example, studying chemistry provided some insight into the not-so-obvious reactions that could occur within a vechicles motor due to the electricity running through various materials possible enabling reactions between wires, circuitry and the air presnet around and within components.  </p>  </div>  <div class="image-section">  <div class="image-with-credit-box">  <img src="images/MounceStephensJ\_ITC293\_A3\_Science\_Art.jpg" alt="Science equations" class="website-image">  <p>Source: <a href="https://www.freepik.com/free-vector/scientific-formulas-chalkboard\_7458753.htm#fromView=search&page=1&position=0&uuid=138bb3c5-e34c-4130-9e15-74750dbfdaf7">Freepik</a></p>  </div>  </div>  </div>  <div class="flex-display">  <div class="image-section">  <div class="image-with-credit-box">  <img src="images/MounceStephensJ\_ITC293\_A3\_Code\_Demo\_3.png" alt="C++ Code" class="website-image">  </div>  </div>  <div class="text-block right-block">  <h2 class="section-head"><span id="programming-jump" class="jump-top"><span class="jump-bottom">Programming Skills</span></span></h2>  <p>  So far, I have largely been a self-taught software developer. I consider myself to be reasonbly proficient with Python and C++ primarily however I have enough backgorund knowledge to be able to adapt to most languages I might need. My primary interest lies in computer graphics and thus is where I have spent most of my time researching and learning about. Additionally, however, I have spent time learning basic principles of program design and architecture to solve problems with better solutions. My experience with programming is very useful for enhancing my problem solving abilities as well as my ability to analyse a system as a whole, such as what the side effects an addition to a system could be.  </p>  </div>  </div>  </div>  <hr>  <footer class="page-footer">  <p>&copy; 2024 Jacob Mounce-Stephens. All rights reserved. All images/videos are original works unless otherwise stated.<br>Phone and Email icon in header are designed by <a href="www.freepik.com">Freepik</a>.</p>  </footer>  </body>  </html> |

## Validation

A screenshot of a computer

Description automatically generated

## Personal Reflection

The page has the same reflection as the previous two pages.

# MounceStephensJ\_ITC293\_A3\_SKill\_4\_web\_skills.html

## Storyboard

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| --- | --- | --- | --- | --- | --- | --- |
| Page title | MounceStephensJ\_ITC293\_A3\_Skill\_4\_Web\_Skills.html | | Screen ID | 2.6 | Date | 1/6/2024 |
|  | | | Elements | | | |
| Graphics | Basic icons will be used in the header of each page. Other images used will be relevant to an accompanying paragraph to enhance reading experience. | | |
| Text | The text on this page will outline some basic skills and abilities I have in relation to web development. | | |
| Audio/Video | None | | |
| Notes | - This website is designed using the CSS box model in mind to position elements.  - The general layout of this page uses two columns, one containing text and the other containing an image(s).  - Contains a button that links to the form page. | | |
| Description | | Web skills page. | | | | |
| Content | | A brief page that highlights some of my capabilities in relation to HTML and CSS. Provides a comparison between what a website might look like and the work that has to go into creating that happen through the use of an image showing the HTML and CSS used to create the page. Furthermore, the bottom portion of the page provides access to the demonstration form. | | | | |
| Interactions | | Website navigation links: between pages and around the same page.  Phone and email links. | | | | |
| Media Creation | | Images not marked with a source are fully created by me and are original works. Images marked with “Source:” are derived from a website that hosts free use images licensed under Creative Commons. Any image modifications are made through CSS. | | | | |
| Navigation | | Navigation is made possible through the navigation bar at the top of the screen. It lists all pages on the website and also highlights the page the user is currently on. Furthermore, there are phone and email links to assist the user. | | | | |

## Code

|  |
| --- |
| <!DOCTYPE html>  <html lang="en">  <head>  <!--  ITC293 - Introduction to the web  Assessment 4 - HTML, CSS, Design and Java Script    Jacob Mounce-Stephens  1/6/2024  This page contains a short demonstration of some HTML and CSS  skills.  -->  <meta charset="utf-8">  <meta name="author" content="Jacob Mounce-Stephens">  <meta name="description" content="Portfolio website web skills page">  <meta name="keywords" content="Portfolio, Electric cars">  <title>My Portfolio - Web Skills</title>  <link rel="stylesheet" href="css/MounceStephensJ\_ITC293\_A3\_CSS.css">  <link rel="icon" href="images/MounceStephensJ\_ITC293\_A3\_Transport\_Icon.png">  </head>  <body class="page-body">  <!-- Div contains the website header -->  <div class="page-header">  <div class="name-bar">  <h1>Jacob Mounce-Stephens</h1>  <div class="phone-bar">  <img src="images/MounceStephensJ\_ITC293\_A3\_Phone\_Icon.png" alt="Phone icon" class="header-image">  <a href="tel:0118-999-881-999-119-725-3">0118 999 881 999 119 725 3</a>  </div>  <div class="email-bar">  <img src="images/MounceStephensJ\_ITC293\_A3\_Email\_Icon.png" alt="Email icon" class="header-image">  <a href="mailto:somename@somedomain">somename@somedomain</a>  </div>  </div>  <div class="logo-bar">  <img src="images/MounceStephensJ\_ITC293\_A3\_Transport\_Icon.png" alt="Website logo. An electric car." class="header-logo">  <p><a href="https://www.flaticon.com/free-icons/transportation" title="transportation icons">Transportation icons created by msidiqf - Flaticon</a></p>  </div>  </div>  <!-- Div contains both the internal and external navigation bars -->  <div class="navigation-div">  <div class="navigation-bar">  <ul>  <li><a href="MounceStephensJ\_ITC293\_A3\_Index.html">Index</a></li>  <li><a href="MounceStephensJ\_ITC293\_A3\_About.html">About</a></li>  <li><a href="MounceStephensJ\_ITC293\_A3\_Resume.html">Resume</a></li>  <li><a href="MounceStephensJ\_ITC293\_A3\_Skill\_1\_Communication.html">Communication Skills</a></li>  <li><a href="MounceStephensJ\_ITC293\_A3\_Skill\_2\_Engineering.html">Engineering Skills</a></li>  <li><a href="MounceStephensJ\_ITC293\_A3\_Skill\_3\_Problem\_Solving.html">Analytical Skills</a></li>  <li class="active">Web Skills</li>  </ul>  </div>  <div class="internal-navigation">  <ul>  <li><a href="#skills-jump">My skills</a></li>  <li><a href="#form-jump">Form demo</a></li>  </ul>  </div>  </div>  <div class="about-body">  <div class="flex-display">  <div class="text-block left-block">  <!-- Credit (explained in document): Robert Hickman - https://stackoverflow.com/questions/38530800/jumping-to-a-different-part-of-the-same-page-with-a-margin -->  <h2 class="section-head"><span id="skills-jump" class="jump-top"><span class="jump-bottom">My skills in web development</span></span></h2>  <p>  This portfolio serves as a minimalistic demonstration of my skills and abilities in relation to web development as this website was developed using no external tools or programs, just a simple text editor. Through my time learning HTML and CSS I have learned various key concepts and the fundamentals required to create a website. For example, the code required to create the section below is shown to the right:  </p>  <!-- No class or id usage as this code is for demonstration purposes -->  <!-- Kept for A2 for same reason as above, except for the class used to remove background colour -->  <div style="background-color: #00b4d8; padding: 0.5em;" class="demo-div">  <hr>  <h4>Fancy text</h4>  <p><span style="text-decoration: underline;">Underlined</span></p>  <ul style="list-style-type: square;">  <li><span style="color: red;">Demo 1</span></li>  <li style="list-style-type: none;">  <ol style="list-style-type: lower-roman">  <li><span style="font-size: 2em;">Demo 2</span></li>  <li><span style="font-style: italic;">Demo 3</span></li>  </ol>  </li>  <li style="font-family: monospace, serif">Demo 4</li>  </ul>  <hr>  </div>  <p>  Futhermore, I have spent time learning about some interesting CSS concepts such as image modifcation, as shown to the right, and basic animations and transitions. For example, hover over the box below and see what happens!  </p>  <div class="hover-bound">  <p class="hover-animation">Hover over me!</p>  </div>  <p>  Combining tools such as those demonstrated above along with the many many other tools provided by HTML and CSS it is possible for me to create many different and interesting things very easily. Futhermore, when by utilising JavaScript and learning more about its inner workings, I am sure it would be possible to create almost anything as a website.  </p>  </div>  <div class="image-section">  <!-- Below div needed only to keep formatting consistent. This is an original image -->  <!--  Nested divs used for image formatting. Needed to make the code similar  to how the other images are formatted. Only used for image sections with 2 stacked images.  -->  <div class="image-table-row">  <div class="image-with-credit-box">  <img src="images/MounceStephensJ\_ITC293\_A3\_Code\_Demo\_2.png" alt="Image of html code" class="website-image">  </div>  </div>  <div class="image-table-row">  <div class="image-with-credit-box">  <img src="images/MounceStephensJ\_ITC293\_A3\_Coloured\_Flasks.jpg" alt="Image of science flasks" class="website-image chemistry2-image">  <p>Source: <a href="https://unsplash.com/photos/three-assorted-color-liquid-filled-laboratory-apparatuses-yS3XM9qx3hQ">Alex Kondratiev</a></p>  </div>  </div>  </div>  </div>  <div class="flex-display form-div">  <div class="text-block center-block">  <h2 class="section-head"><span id="form-jump" class="jump-top"><span class="jump-bottom">Form demonstration</span></span></h2>  <p>  Another skill I have when it comes to web development is the ability to create interactive and useful forms to allow ther user to input some data into the website and then for some work to be completed on that data.  <br>  For a demonstration, please press the button below.  </p>  <button class="form-button" onclick="window.open('MounceStephensJ\_ITC293\_A3\_Form\_Page.html', '\_blank')">Open form</button>  </div>  </div>  </div>  <hr>  <footer class="page-footer">  <p>&copy; 2024 Jacob Mounce-Stephens. All rights reserved. All images/videos are original works unless otherwise stated.<br>Phone and Email icon in header are designed by <a href="www.freepik.com">Freepik</a>.</p>  </footer>  </body>  </html> |

## Validation

A screenshot of a computer

Description automatically generated

## Personal Reflection

As described in the Index reflection, I do not have many comments to say about each individual page, however, here is my brief reflection for this page.

The final page was very similar to the previous pages however I changed my mind set and decided to focus on created small HTML and CSS demonstrations to keep in line with the ‘web skills’ theme of the page. I did struggle a bit with thinking about what content might actually suit this page and so it is a bit shorter than the other pages however I think it is fine as I consider the entire website a demonstration of the web skills I possess already.  
 I decided early, however, that a unique idea for this page would be to move all text into the left column and then populate the right column with examples of some of the HTML and CSS code as well as an image filtering and distortion example. I think this is a nice way of showing both what the end product of web development looks like as well as what skills actually go into creating the end product.

# MounceStephensJ\_ITC293\_A3\_Form\_page.html

## Storyboard

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Page title | MounceStephensJ\_ITC293\_A3\_Form\_Page.html | | Screen ID | 3.0 | Date | 1/6/2024 |
|  | | | Elements | | | |
| Graphics | Basic icons will be used in the header of each page. | | |
| Text | None | | |
| Audio/Video | None | | |
| Notes | - This page contains the form where the user can enter data. Nothing else is written on this page. | | |
| Description | | The page containing the user form. | | | | |
| Content | | A very simple page containing no content other than the demonstrational user form. | | | | |
| Interactions | | Website navigation links: between pages and around the same page.  Phone and email links. | | | | |
| Media Creation | | Images not marked with a source are fully created by me and are original works. Images marked with “Source:” are derived from a website that hosts free use images licensed under Creative Commons. Any image modifications are made through CSS. | | | | |
| Navigation | | Navigation is made possible through the navigation bar at the top of the screen. This page is the only one not accessible from the navigation bar. | | | | |

## Code

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| --- |
| <!DOCTYPE html>  <html lang="en">  <head>  <!--  ITC293 - Introduction to the web  Assessment 3 - HTML, CSS and Design    Jacob Mounce-Stephens  28/4/2024  This page contains a form for a user to enter data into.  -->  <meta charset="utf-8">  <meta name="author" content="Jacob Mounce-Stephens">  <meta name="description" content="Portfolio website web skills page">  <meta name="keywords" content="Portfolio, Electric cars">  <title>My Portfolio - Web Skills</title>  <link rel="stylesheet" href="css/MounceStephensJ\_ITC293\_A3\_CSS.css">  <link rel="icon" href="images/MounceStephensJ\_ITC293\_A3\_Transport\_Icon.png">  <script src="js/MounceStephensJ\_ITC293\_A3\_JS.js"></script>  </head>  <body class="page-body" onload="pageLoaded()">  <!-- Div contains the website header -->  <div class="page-header">  <div class="name-bar">  <h1>Jacob Mounce-Stephens</h1>  <div class="phone-bar">  <img src="images/MounceStephensJ\_ITC293\_A3\_Phone\_Icon.png" alt="Phone icon" class="header-image">  <a href="tel:0118-999-881-999-119-725-3">0118 999 881 999 119 725 3</a>  </div>  <div class="email-bar">  <img src="images/MounceStephensJ\_ITC293\_A3\_Email\_Icon.png" alt="Email icon" class="header-image">  <a href="mailto:somename@somedomain">somename@somedomain</a>  </div>  </div>  <div class="logo-bar">  <img src="images/MounceStephensJ\_ITC293\_A3\_Transport\_Icon.png" alt="Website logo. An electric car." class="header-logo">  <p><a href="https://www.flaticon.com/free-icons/transportation" title="transportation icons">Transportation icons created by msidiqf - Flaticon</a></p>  </div>  </div>  <!-- Div contains both the internal and external navigation bars -->  <div class="navigation-div">  <div class="navigation-bar">  <ul>  <li><a href="MounceStephensJ\_ITC293\_A3\_Index.html">Index</a></li>  <li><a href="MounceStephensJ\_ITC293\_A3\_About.html">About</a></li>  <li><a href="MounceStephensJ\_ITC293\_A3\_Resume.html">Resume</a></li>  <li><a href="MounceStephensJ\_ITC293\_A3\_Skill\_1\_Communication.html">Communication Skills</a></li>  <li><a href="MounceStephensJ\_ITC293\_A3\_Skill\_2\_Engineering.html">Engineering Skills</a></li>  <li><a href="MounceStephensJ\_ITC293\_A3\_Skill\_3\_Problem\_Solving.html">Analytical Skills</a></li>  <li><a href="MounceStephensJ\_ITC293\_A3\_Skill\_4\_Web\_Skills.html">Web Skills</a></li>  </ul>  </div>  </div>  <div class="text-block center-block form-block">  <form id="main-form" name="email-form" action="http://csusap.csu.edu.au/cgi-bin/echo\_form" onsubmit="return validateForm()" method="post">  <!-- User information section -->  <div class="name-input">  <div class="form-text-block">  <label for="input-text-first-name">First Name <span class="require">(Required)</span></label>  <input type="text" id="input-text-first-name" maxlength="60"><br>  </div>  <div class="form-text-block">  <label for="input-text-last-name">Last Name <span class="require">(Required)</span></label>  <input type="text" id="input-text-last-name" maxlength="60"><br>  </div>  </div>  <div class="form-text-block">  <label for="input-text-email">Email Address</label>  <input type="text" id="input-text-email" maxlength="60">  </div>  <br>  <!-- Age input section -->  <fieldset style="display:inline;">  <legend>How old are you?</legend>  <input type="radio" name="input-radio" id="input-radio-s1" value="15-25">  <label for="input-radio-s1">15-25</label>  <input type="radio" name="input-radio" id="input-radio-s2" value="26-35">  <label for="input-radio-s2">26-35</label>  <input type="radio" name="input-radio" id="input-radio-s3" value="36-45">  <label for="input-radio-s3">36-45</label>  <input type="radio" name="input-radio" id="input-radio-s4" value="46-55">  <label for="input-radio-s4">46-55</label>  <input type="radio" name="input-radio" id="input-radio-s5" value="55+">  <label for="input-radio-s5">55+</label>  </fieldset>  <br>  <!-- Department selection section -->  <fieldset style="display:inline;">  <legend>Select department(s) of interest</legend>  <input type="checkbox" name="input-checkbox-s1" id="input-checkbox-s1">  <label for="input-checkbox-s1">Marketing</label><br>  <input type="checkbox" name="input-checkbox-s2" id="input-checkbox-s2">  <label for="input-checkbox-s2">Graphics Design</label><br>  <input type="checkbox" name="input-checkbox-s3" id="input-checkbox-s3">  <label for="input-checkbox-s3">Management</label><br>  <input type="checkbox" name="input-checkbox-s4" id="input-checkbox-s4">  <label for="input-checkbox-s4">Engineering</label><br>  <input type="checkbox" name="input-checkbox-s5" id="input-checkbox-s5">  <label for="input-checkbox-s5">Production</label>  </fieldset>  <br>  <!-- Misc section -->  <p class="no-lower-margin">Comments:</p>  <textarea id="comment-input" rows="5" cols="70"></textarea><br>  <!-- Submit & Reset buttons -->  <button type="reset" form="main-form" id="reset-button">Reset</button>  <button type="submit" id="submit-button">Submit</button>  </form>  </div>  <hr>  <footer class="page-footer">  <p>&copy; 2024 Jacob Mounce-Stephens. All rights reserved. All images/videos are original works unless otherwise stated.<br>Phone and Email icon in header are designed by <a href="www.freepik.com">Freepik</a>.</p>  </footer>  </body>  </html> |

## Validation

A screenshot of a computer

Description automatically generated

## Personal Reflection

The bulk of the layout and formatting for this page was very easy because it was the last page I put together and so most of the work was already completed. Assembling the form itself was quite easy as well because I simply had to include the components listed as requirements for the assignment. One thing I struggled with, and ultimately couldn’t get to a point I was happy with, is when the page is loaded, the required alert appears while the page is still black. This issue doesn’t appear when refreshing the page, just on initial open. I believe this happens because the alert appears immediately after the page loads but right before the page renders, causing the screen to remain black. Unfortunately, I was unable to find a solution to this problem.

# MounceStephensJ\_ITC293\_A3\_CSS.css

## Code

|  |
| --- |
| /\*\*  \* ITC293 - Introduction to the web  \* Assessment 4 - HTML, CSS, Design and Java Script  \*  \* Jacob Mounce-Stephens  \* 1/6/2024  \*  \* This file contains all CSS that is used across multiple pages of the site.  \*/  /\*\*  \* Classes related to the header at the top of each page  \*/  .name-bar {  text-align: left;  background-color: #03045e;  color: white;  padding: 0.1em 1em 0.1em 1em;  font-family: Verdana, serif;  }  /\* Style used for the phone portion of the header \*/  .phone-bar {  display: flex;  gap: 1em;  align-items: center;  }  .phone-bar a {  color: white;  }  /\* Styling used for the email portion of the header \*/  .email-bar {  display: flex;  gap: 1em;  align-items: center;  padding-bottom: 1em;  margin-top: 0.5em;  }  .email-bar a {  color: white;  }  /\* Style used for the phone and email icon in the header \*/  .header-image {  width: 2.5em;  height: 2.5em;  filter: invert(1);  }  /\*\*  \* Classes related to the navigation bars at the top of each page  \*/  /\* The following two classes are used to shift where the screen scrolls to upon clicking the internal navigation bar \*/  .jump-top {  position:relative;  top:-5em;  }  .jump-bottom {  position:relative;  top:5em;  }  /\* The div used to hold both navigation bars \*/  .navigation-bar {  font-family: "Lucida Console", serif;  }  /\* The div used for the navigation bar between pages \*/  .navigation-div {  position: sticky;  top: 0;  z-index: 1;  }  /\* The style of the external navigation bar ul \*/  .navigation-bar ul {  background-color: #023e8a;  text-align: center;  margin: 0;  padding: 0;  overflow: hidden;  list-style-type: none;  color: white;  display: flex; /\* Restrict nav bar to one line \*/  }  /\* The style of the external navigation bar li \*/  .navigation-bar li {  display: block;  float: left;  border-right: solid 1px black;  color: white;  }  /\* Remove the right border from the last navigation tab \*/  .navigation-bar li:last-child {  border-right: none;  }  /\* Set the colour when hovering over a navigation option if it is not the current page \*/  .navigation-bar li:hover:not(.active) {  background-color: #0077b6;  }  /\* The background colour for the currently open page \*/  .active {  background-color: #0096c7;  }  /\* The sizing of each element in the external navigation bar \*/  .navigation-bar a, .active {  display: block;  padding: 0.5em 1em 0.5em 1em;  }  /\* The style of the tabs that don't correspond to the currently open page \*/  .navigation-bar a {  color: white;  text-decoration: none;  }  /\* The div used for the internal navigation bar \*/  .internal-navigation {  font-family: "Lucida Console", serif;  }  /\* The style of the internal navigation bar ul \*/  .internal-navigation ul {  background-color: #0096c7;  text-align: center;  margin: 0;  padding: 0;  overflow: hidden;  list-style-type: none;  color: white;  }  /\* The style of the internal navigation bar li \*/  .internal-navigation li {  display: block;  float: left;  border-right: solid 1px black;  color: white;  display: block;  }  /\* The sizing of each element in the internal navigation bar \*/  .internal-navigation a {  display: block;  color: white;  padding: 0.5em 1em 0.5em 1em;  text-decoration: none;  }  /\* Set the colour of an internal navigation tab when hovered over \*/  .internal-navigation a:hover {  background-color: #00b4d8;  }  /\*\*  \* Classes used for styling images throughout the website  \*/  /\* The base style for every image on the website \*/  .website-image {  border-radius: 1em;  /\*height: 50%;\*/  z-index: -1;  margin-left: auto;  margin-right: auto;  display: block;  filter: drop-shadow(0em 0em 0.4em black);  max-width: 100%;  }  /\* Default sizing for the divs that hold images \*/  .image-section {  width:50%;  margin:1em;  display: table;  }  /\* Properties for images that have a credit attached \*/  .image-with-credit-box {  padding: 0;  margin: 0;  vertical-align: middle;  display: table-cell;  }  /\* Properties for the credit portion of images \*/  .image-with-credit-box p {  margin: 0;  font-style: italic;  text-align: center;  }  .image-table-row {  display: table-row;  vertical-align: middle;  }  /\*\*  \* Classes related to the general formatting of the website  \*/  /\* Style of the text-containging portions of the site \*/  .text-block {  padding: 0em 1em 0em 1em;  width: 50%;  border: solid 1px black;  margin-bottom: 1em;  }  /\* Leave space between the first text-block and the navigation bar \*/  .text-block:first-child {  margin-top: 1em;  }  /\* The titles of each text block \*/  .section-head {  background-color: #0096c7;  padding: 1em;  text-decoration: underline overline rgba(0, 0, 0, 0.3);  box-shadow: 0.1em 0.1em 0.2em black;  font-style: italic;  font-size: 2em;  }  /\* The subheadings for text blocks \*/  .section-subhead {  background-color: #00b4d8;  padding: 0.5em;  text-decoration: dashed underline overline rgba(0, 0, 0, 0.2);  box-shadow: 0.1em 0.1em 0.1em black;  font-style: normal;  font-size: 1.4em;  }  /\* Position a text block against the left edge of the page \*/  .left-block {  background-image: linear-gradient(to right, #ade8f4, #90e0ef);  }  /\* Position a text block against the right edge of the page \*/  .right-block {  background-image: linear-gradient(to left, #ade8f4, #90e0ef);  margin-left: auto;  }  /\*\*  \* Style classes that do not fit into the above categories  \*/  /\* Modify all ul elements that are not in the navigation bar \*/  ul:not(.navigation-bar) {  list-style-type: square;  }  /\* Modify all ol elements \*/  ol {  list-style-type: lower-roman;  }  /\* Styles that affect the entire body container of the website \*/  .page-body {  background-color: #caf0f8;  margin: 0;  }  /\* Index internal CSS \*/  .code1-image {  max-width: 100%;  max-height: 50%;  }  .math1-image {  margin-top: 3%;  max-width: 100%;  max-height: 47%;  }  .link-box {  border: solid 1px black;  padding: 0.1em;  font-weight: bolder;  }  .subject-emphasis {  font-weight: bold;  text-decoration: underline;  font-size: 1.1em;  }  .comp-sci {  color: red;  }  .maths {  color: blue;  }  .engineer {  color: purple;  }  .hardware {  color: green;  }  /\* About internal CSS \*/  .chemistry-image {  max-width: 60%;  }  /\* Resume internal CSS \*/  .center-block {  background-image: linear-gradient(to right, #ade8f4, #90e0ef);  margin-left: auto;  margin-right: auto;  width: 70%;  }  /\* Web skills internal CSS \*/  .hover-bound {  background-color: #00b4d8;  width: max-content;  transition: all 1s ease;  margin-left: auto;  margin-right: auto;  padding: 1em;  }  .hover-bound:hover {  background-color: red;  transform: scaleY(2) scaleX(3);  color: white;  }  .chemistry2-image {  max-width: 50%;  margin-left: auto;  margin-right: auto;  filter: blur(0.1em);  clip-path: polygon(10% 10%, 100% 15%, 70% 100%, 0% 90%);  }  /\* New stylings for A2 \*/  .page-footer {  text-align: center;  }  /\* Mark-table is used in resume for school marks \*/  .mark-table table, td, th {  border: solid 1px black;  }  .mark-table {  text-align: center;  border-collapse: collapse;  }  .page-header {  display: flex;  }  .name-bar {  width: 50%;  }  /\* Logo sections relate to the icon at the top right of each page \*/  .logo-bar {  background-color: #03045e;  width: 50%;  text-align: right;  padding-right: 1em;  }  .header-logo {  height: 12em;  margin-right: auto;  margin-left: auto;  }  .logo-bar p {  text-align: right;  }  .logo-bar a {  color: white;  font-style: italic;  }  /\* Classes to remove in-line styles \*/  .center-align {  text-align: center;  }  .right-align {  text-align: right;  }  .left-align {  text-align: left;  }  .flex-display {  display: flex;  }  .max-width {  max-width:100%  }  .top-gap {  margin-top: 2em;  }  .upper-roman-list {  list-style: upper-roman;  }  .no-list-style {  list-style-type: none;  }  html {  font-size: 110%;  }  /\*\*  \* Form styling  \*/  .form-block {  padding: 1em;  margin-top: 1em;  font-size: 125%;  width: 60%;  }  .name-input {  display: flex;  }  .name-input .form-text-block {  width: 50%;  padding: 0.1em;  }  .form-text-block {  display: flex;  flex-direction: column;  }  .require {  color: red;  font-style: italic;  font-size: 80%;  }  .no-lower-margin {  margin-bottom: 0;  }  .form-button {  background-color: #00b4d8;  border: solid 2px #00b4d8;  padding: 1em;  font-size: 150%;  transition: all 0.1s ease;  margin: 1em;  }  .form-button:hover {  background-color: #4ae1ff;  border: solid 2px #00b4d8;  }  /\* Additional stylings from A3 \*/  .code-video {  width: 460px;  height: 259px;  }  .video-box {  display: flex;  justify-content: center;  }  /\*\*  \* All stylings below this point are exclusively related to printing the website  \*/  @media print {  /\* Standardise and enlarge the font across the entire page. Additionally set the default colour to black. \*/  html {  font-family: Arial, Helvetica, Verdana, sans-serif;  font-size: 125%;  color:#000000;  }  /\* Remove background colours and gradients from text sections and page. \*/  .page-body {  background-color: white;  }  .text-block {  background-image: none;  }  .section-head {  background-color: white;  }  .section-subhead {  background-color: white;  }  /\* Revert text colours in header to black \*/  .name-bar {  color: black;  background-color: white;  }  .phone-bar a {  color: black;  }  .email-bar a {  color: black;  }  /\* Completely hide both navigation bars \*/  .navigation-bar {  display: none;  font-size: 100%;  }  .internal-navigation {  display: none;  }  /\* Remove the offsets needed for page navigation as it is not needed for printing \*/  .jump-top {  top: 0em;  }  .jump-bottom {  top: 0em;  }  /\*Remove the invert filter on the header logos \*/  .header-image {  filter: none;  }  .link-box {  border: none;  padding: 0em;  }  .center-block {  background-image: none;  }  .logo-bar {  background-color: white;  }  .logo-bar a {  color: black;  }  /\* Hide video div when printing. \*/  .code-demo {  display: none;  }  /\* Hide form div when printing \*/  .form-div {  display: none;  }  .demo-div {  background-color: white !important;  }  .hover-bound {  background-color: white;  }  } |

## Validation

A screenshot of a computer error

Description automatically generated

# MouncestephensJ\_ITC293\_A3\_JS.js

## Code

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| /\*\*  \* ITC293 - Introduction to the web  \* Assessment 4 - HTML, CSS, Design and Java Script  \*  \* Jacob Mounce-Stephens  \* 1/6/2024  \*  \* This file contains all JavaScript that is used for the website form.  \*/  // Setup an onLoad event to display an alert when the page  // has finished loading  window.addEventListener("load", (event) => {  alert("Welcome to the VeryReal Corporation/Ltd. - Newsletter Signup");  });  // Validate the form when the 'submit' button is pressed  function validateForm() {  var form = document.forms["email-form"]; // Store a reference to the form  // Check if both first and last name are not empty  if (!form.elements["input-text-first-name"].value & !form.elements["input-text-last-name"].value) {  alert("The first name and last name fields cannot be empty!");  return false; // Return false validation  }  // Check if just first name isn't empty  else if (!form.elements["input-text-first-name"].value) {  alert("The first name field cannot be empty!");  return false; // Return false validation  }  // Check if just last name isn't empty  else if (!form.elements["input-text-last-name"].value) {  alert("The last name field cannot be empty!");  return false; // Return false validation  }  // No issues found, return true  return true;  } |

## Validation

A screenshot of a computer

Description automatically generated

## Personal Reflection

The biggest consideration that went into writing the CSS document was “How do I layout this file?” This question remained on my mind throughout the entire creation process for the website and I was constantly updated and shuffling around portions of this file as I deemed necessary. This was all to keep the file organised and logical. As such, this file underwent a lot of development and change. For example, I would add a class then decide it wasn’t needed then maybe add it straight back in or merge it into another class. If I realised that some CSS was only necessary for a single file, I would then take that section of the CSS file and integrate it into the individual pages style sheet.  
 Due to the nature of CSS and the reasons described above, this file was the most modified and used file throughout the entire process of creating my portfolio website. Right up until when I considered the assignment complete, I was still adding, removing, and changing this file around.

# Final Thoughts

At the end, I wanted to very briefly give a few overall thoughts that didn’t fit into any particular reflection.

Upon completing this assignment, I have once again come to appreciate the power and flexibility that is offered by both HTML and CSS and especially the power that comes from combining the two together. In almost every situation, I was able to think of an idea for how I wanted my website to look and then using the tools provided, was able to make that idea a reality. Extending the website later with JavaScript demonstrated some of the utility and power that can come from creating a website for a specific purpose.

# TurnItIn

