

**PORTFOLIO**

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**INTRODUCTION**

I am a motivated individual with a passion for technology and learning. My goal is to develop and apply my skills in various fields, such as programming, web development, and while continuously growing knowledge in emerging technology.

**TOOLS**

* Search engines
* Word 2023
* Excel 2023
* Sublime text
* Notepad
* Visual Studio Code
* Rufus
* Windows 10 IOS File
* Packet Tracer
* GitHub

**SKILLS**

**What is Computer?**

- Understanding computer hardware (the physical part of the computer) and software (the instructions given to the computer to do users work).

- Identifying components like CPU (the brain of the computer), storage (can be temporary or permanent storage) and peripherals.

**Computer Architecture knowledge**

- (the structure of the computer system that determine how its component communicates to process data), In-depth understanding of CPU components, RAM usage, storage types and facilitating effective troubleshooting and system management.

**Internet and Web Browsing Skills:**

- Experienced in navigating web browsers, using search engines for research, and managing email services, ensuring efficient information retrieval and communication.

**File management**

-The process of organizing, storing, naming and deleting files.

- Skilled in file operations such as copying, moving, deleting, and renaming, as well as searching for files and folders, enhancing productivity and organization.

**Digital literacy and online safety**

-Being mindful of the tone to use and personal information. Never share the password with anyone. Use of collaboration tools, digital citizenship (Treat others with respect and kindness online as we have different cultures) and Respect copyright.

-Internet safety and responsible online behavior (use a strong password and two factor authentication)

**Email**

-Is a method of exchanging digital messages over the internet.

**Windows Installation:**

- Capable of preparing installation media, booting from media, and completing installation steps, including setting language preferences and entering product keys.

**AND EVEN MADE A REPORT**

**Steps Followed**

A bootable USB drive with the Windows 10 installation files was prepared in advance.

1. Getting Ready

- Using a bootable USB stick with Windows 10 on it.

2. Installing Windows 10

- Put the USB stick into the computer.

-Turned on the computer and pressed a key (F12) to open the boot menu.

- Chose the USB stick to start the computer.

- The Windows 10 setup started and asked us to pick a language, time and current format, and keyboard or input method.

- Chose the right options and clicked “Next.”

- Clicked “Install Now”.

- The setup was starting

- Activate Windows and chose “I don’t have a product key”.

- “Select the operating system” and chose “Windows10 Pro”

- Agreed to the application notice and license terms and clicked “Next”.

- Picked “Custom: Install Windows only (advanced)”.

- Chose where to put Windows 10 on Drive0 Position 2. We cleaned the partition and clicked “Next”.

- The installation started and we waited until all the status reached 100%.

- “Computer needs to restart to continue”.

- Chose United States region, keyboard layout but skipped a second layout

- Picked “No Internet” because we didn’t have it, even though there is more to discover when connected to the internet.

- Did answer 3 questions to create a security.

- Waited a bit more until Windows 10 was ready.

**Results**

- I successfully installed Windows 10.

- Not having internet didn’t stop the installation.

- Windows 10 worked fine when it was done.

**Recommendations**

- Next time, I’ll try to have internet to get updates during the setup.

- Keep the USB stick updated with the latest Windows 10 version.

**Microsoft Office Proficiency:**

- **Word:** creating documents, reports, adding tables and charts, comments, header and footer, page numbers, all about in design, in layout and in reference.

- **Exce**l: Expertise in data storage, Learned most formulas like average, maximum, minimum, sum, if and Vlookup and Analysis.

**Computer networking**

Understanding a network, its protocols (7 layers in OSI and 4 layers in the TCP/IP Model) and structure of a TCP packet.

**Emerging Technologies**

Introduction of Artificial Intelligence (AI) and machine learning

Basics of the Internet of Things (IOT) and Block chain.

**Web Development Skills:**

- **HTML**: Proficient in using editors, elements, attributes, headings, forms, and tables to build structured web pages.

HTML Structure

<!DOCTYPE html>

<html>

<head>

<title>My Web Page</title>

</head>

<body>

<h1>Welcome to My Web Page</h1>

<p>This is a paragraph of text.</p>

<img src="example.jpg" alt="Example Image">

</body>

</html>

**Let's break down the different parts of this HTML structure:**

1. DOCTYPE Declaration: The `<!DOCTYPE html>` declaration tells the web browser that this document is an HTML5 document.

2. HTML Element: The `<html>` element is the root element of an HTML document and contains all the other elements.

3. Head Element: The `<head>` element contains metadata about the web page, such as the title, which is displayed in the browser's title bar or tab.

4. Title Element: The `<title>` element specifies the title of the web page, which is also used in search engine results and bookmarks.

5. Body Element: The `<body>` element contains the visible content of the web page, such as headings, paragraphs, images, and other elements.

6. Heading Element: The `<h1>` element is a top-level heading, which is the most important heading on the page.

7. Paragraph Element: The `<p>` element is used to create a paragraph of text.

8. Image Element: The `<img>` element is used to insert an image into the web page. The `src` attribute specifies the URL of the image, and the `alt` attribute provides alternative text for the image.

- **CSS**: Skilled in applying syntax, selectors, comments, and styling elements like colors, backgrounds, margins, padding, text, and fonts.

**CSS for the HTML Structure**

/\_ General Styles \_/

body {

font-family: Arial, sans-serif;

margin: 0;

padding: 0;

}

/\_ Header Styles \_/

header {

background-color: #333;

color: #fff;

padding: 20px;

text-align: center;

}

header h1 {

margin: 0;

}

/\_ Main Content Styles \_/

main {

padding: 20px;

}

h1 {

color: #333;

}

p {

line-height: 1.5;

}

/\_ Image Styles \_/

img {

max-width: 100%;

height: auto;

display: block;

margin: 20px auto;}

1. General Styles: These styles apply to the overall body of the web page, setting the font family and removing any default margin and padding.

2. Header Styles: The header section is styled with a dark background color, white text, padding, and centered alignment.

3. Main Content Styles: The main content area is given some padding, and the heading and paragraph styles are defined.

4. Image Styles: The image is set to a maximum width of 100% to ensure it fits within the content area, and it is centered using the `margin: 20px auto;` declaration.

- **JavaScript**: Experienced in manipulating HTML content, styles, and visibility, handling events, and using JavaScript for interactive web features

const imageElement = document.getElementById('myImage');

const toggleButton = document.getElementById('toggleImage');

toggleButton.addEventListener('click', function() {

if (imageElement.style.display === 'none') {

imageElement.style.display = 'block';

toggleButton.textContent = 'Toggle Image';

} else {

imageElement.style.display = 'none';

toggleButton.textContent = 'Show Image';

}

**Hosting a website**

* Create a github account.
* Steps to follow
* Enter a repository and make it public
* Create a repository
* Upload an existing file
* Choose your files
* Commute the changes
* Processing your file
* Press the commit icon to see if the files are verified
* Setting
* Pages
* Change none to main and save
* Go to codes and press the commit icon to see if the files are verified
* Back to setting again
* Pages
* And the site will be live
* And it can be visited
* … next to ‘visit site’ it is where the website can be deleted

Steps to Boot from a USB Drive using Rufus

1. Download and Open Rufus:

- Download the Rufus tool from the official website (https://rufus.ie/).

- Open the Rufus application on your computer.

2. Insert the USB Drive:

- Insert the USB drive you want to use for booting into your computer.

3. Select the USB Drive in Rufus:

- In the Rufus application, the USB drive should be automatically detected and selected.

4. Select the Boot Selection:

- Click the "Select" button next to the "Boot selection" field.

- Navigate to the ISO or IMG file you want to use to create the bootable USB drive.

- Select the file and click "Open".

5. Start the USB Creation Process:

- Once the ISO/IMG file is selected, Rufus will automatically fill in the necessary details.

- Click the "Start" button to begin the process of creating the bootable USB drive.

6. Wait for the Process to Complete:

- Rufus will now start the process of writing the bootable data to the USB drive.

- This process may take several minutes, depending on the size of the ISO/IMG file and the speed of your USB drive.

7. Boot from the USB Drive:

- Once the USB creation process is complete, you can remove the USB drive from your computer.

- Restart your computer and enter the BIOS or UEFI settings, usually by pressing a specific key (e.g., F2, F12, Del) during the boot process.

- In the BIOS/UEFI settings, locate the boot order or boot priority options and set the USB drive as the first boot device.

- Save the BIOS/UEFI settings and exit. Your computer should now boot from the USB drive, allowing you to install the operating system, run a live Linux distribution, or perform other tasks.

The Rufus tool makes the process of creating a bootable USB drive very straightforward. By following these steps, you can easily prepare a USB drive for booting and use it to install or troubleshoot your system.

ARCHIVEMENTS

- Best Performer in Programming Assignments: Achieved a high grade in all programming assignments, demonstrating strong coding skills and understanding of algorithms.

- Completed a Certification: Earned a certification in Computer studies at Vision Rave Center and Leadership Training Certificate.