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**Student ID:** 923721692  
**GitHub Username:** Natty2027  
**Assignment Number:** 4

**CSC 317 Assignment 4 Submission**

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**Description:**

This project was an interactive personal portfolio website showcasing my background, experience, skills, and projects. The primary objective was to design a fully functional and visually appealing webpage that introduces me professionally and allows users to explore my work. Additionally, the site includes dynamic theme-switching functionality to enhance user experience and demonstrate basic JavaScript integration.

The key tasks involved:

* Structuring content using semantic HTML5
* Styling the layout and elements with CSS
* Implementing a JavaScript theme switcher
* Ensuring responsive and accessible design

This site was also built with future scalability in mind, allowing easy additions such as new projects, contact forms, or media.

**Approach / What I Did:**

I began by designing a clean and organized layout using semantic HTML tags like <header>, <main>, <section>, and <footer>. The content is broken down into logical sections (About, Education, Projects, etc.), making it easy to navigate and maintain.

To keep the design modern and readable, I used CSS to style elements with spacing, borders, and fonts, while also incorporating a floating theme switcher button. This button stays in view as users scroll, offering a dynamic and interactive element on the site.

In the JavaScript, I used a simple yet effective approach to store and cycle through multiple CSS theme files. The script detects the active theme, updates the stylesheet, and stores the user’s last chosen theme in localStorage so it persists across visits.

Code Examples:

<head>

<link id="theme-style" rel="stylesheet" href="styles/style.css">

</head>

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<header>

<h1>Nathan M. Johnson</h1>

<img src="images/me\_and\_my\_dog.jpeg" alt="Nathan with his dog">

<p><strong>Retired Navy Veteran, embracing new adventures.</strong></p>

</header>

<main>

<section id="about">

<h2>About Me</h2>

<p>I’m Nathan—a proud Navy veteran, financial professional, and aspiring attorney...</p>

</section>

<section id="projects">

<h2>Projects</h2>

<div class="project-card">

<h3>iOS Style Calculator</h3>

<a href="calculator.html" class="button-link">View Calculator</a>

</div>

</section>

</main>

const themes = [

"styles/style.css",

"styles/ai.1.css",

"styles/ai.2.css",

"styles/Hybrid.css"

];

function switchStyle() {

const link = document.getElementById("theme-style");

const current = link.getAttribute("href");

const currentIndex = themes.indexOf(current);

const next = (currentIndex + 1) % themes.length;

link.setAttribute("href", themes[next]);

localStorage.setItem("theme", themes[next]);

}

window.onload = () => {

const saved = localStorage.getItem("theme");

if (saved && themes.includes(saved)) {

document.getElementById("theme-style").setAttribute("href", saved);

}

};