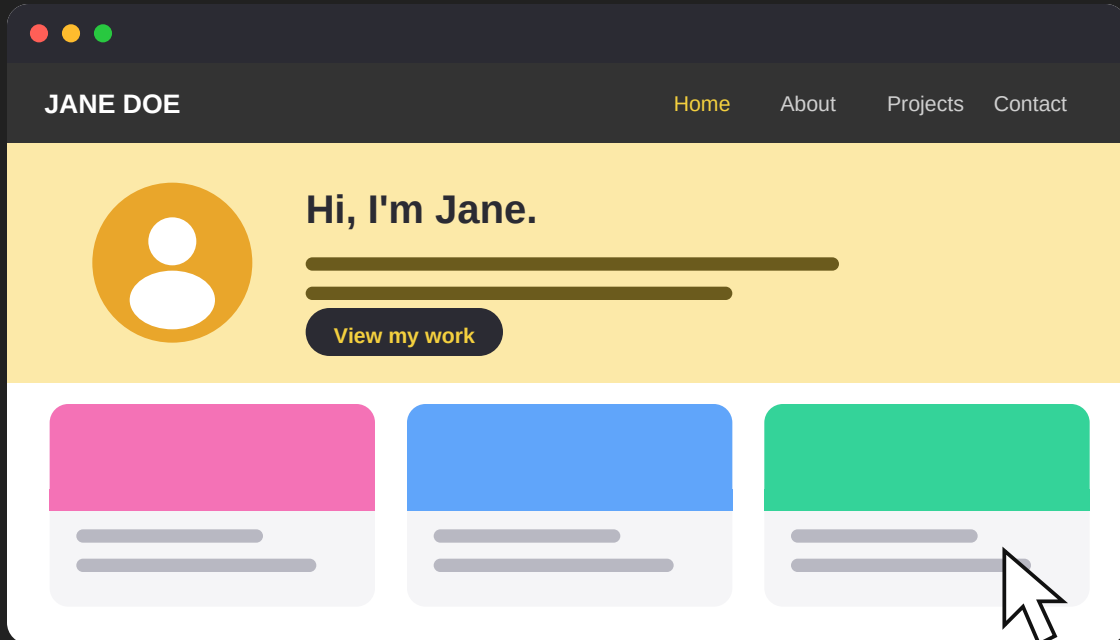




BioGlytch Studios LLC

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Plan it. Build it. Put it online.

WEB DEVELOPMENT

PERSONAL PORTFOLIO

WRITTEN BY

Clarence Scott & BioGlytch Studios

BioGlytch Studios LLC | Est. 2026

In Partnership with Gloria Coles Flint Public Library

bioglytchstudios.tech | 2026 Edition

Web Development - Personal Portfolio

Computer Coding: Learn to Program

BioGlytch Studios LLC

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</HELLO CODER>

Welcome to the engineering world of BioGlytch Studios LLC! We are thrilled to present this book to you. Published by BioGlytch Studios LLC and offered as a front-facing resource of Gloria Coles Flint Public Library, it is dedicated to making computer science and technology education more accessible to our community. Designed for aspiring technology enthusiasts and their supportive parents, this book offers an opportunity to explore the exciting world of computing together. If you are a parent who has chosen this book to introduce your child to technology, we thank you for your trust and support.

Through this book, and our partnership with Gloria Coles Flint Public Library, BioGlytch Studios LLC aims to ignite curiosity and inspire a passion for coding, programming, and computing technologies in individuals of all ages. We recognize that access to quality educational resources can be limited by financial barriers, time constraints, and the rising costs of traditional university courses. Our goal goes beyond teaching the fundamentals—we want to empower you to think critically, solve problems creatively, and begin your journey toward becoming a skilled and innovative engineer.

Throughout this book, you will develop essential skills such as critical thinking, logical outlooks, problem solving, discipline and career-ready structure. Together, we are committed to building a stronger, more technologically empowered community, one coder at a time.

Each successful assessment will grant a Certificate from BioGlytch Studios LLC, along with a PDF of your course completion to show your next employer.

Thank you for joining us on this journey. We look forward to supporting your growth and celebrating your progress as you put your best code forward!

Sincerely,

Clarence Scott

CEO & Founder, BioGlytch Studios LLC

In Partnership with Gloria Coles Flint Public Library

Publishing Information

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Web Development – Personal Portfolio

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Clarence Scott

Publisher

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Introduction: Why Build a Portfolio Website?

What You'll Learn

Welcome to your journey of becoming a web developer! In this book, you will learn how to build your very own portfolio website from scratch. Not only will you learn the basics of HTML, CSS, and JavaScript, but you'll also gain valuable experience working with GitHub, one of the most widely used platforms in the development world.

By the end of this book, you'll have a **fully functional portfolio** that you can showcase to potential employers, clients, or collaborators. Hosting it on **GitHub Pages** will also give you the opportunity to share your work with the world for free, which is a huge advantage when you're starting out.

Why Build a Portfolio Website?

In the competitive world of web development and design, having a strong **online presence** is essential. Your portfolio website is more than just a personal project; it's a tool that showcases your **skills**, **projects**, and **growth** as a developer. Here's why it matters:

- **Stand Out in the Job Market** : A portfolio website makes you more visible to potential employers and clients. It serves as proof that you know how to build websites and that you're familiar with important development tools and practices like version control (Git) and deploying websites (GitHub Pages).
- **Showcase Your Work** : Your portfolio will be a living document of all the work you've done so far. Whether it's personal projects, freelance work, or school assignments, having a central place to show it off makes it easy for others to understand your skills and style.
- **Personal Branding** : A well-crafted portfolio can help build your personal brand. You can use your portfolio to showcase your unique voice and interests, which will make it stand out from others in the field. It's a reflection of you as a developer.
- **Hands-On Experience** : Building a portfolio website will give you practical, real- world experience with the tools and technologies used by developers in the industry today. A great way to learn, build confidence, and create something that you can be proud of.

What to Expect in This Book

In this book, I'll walk you through every step of the process to create your own portfolio website. You don't need any prior experience in coding; we'll start from the basics and build up. Here's what you can expect:

- **HTML** : We'll begin by creating the structure of your website using HTML. You'll learn how to create headings, paragraphs, links, images, and other essential elements to make your portfolio functional.
- **CSS** : Next, we'll style your website with CSS to make it visually appealing. You'll learn how to change fonts, colors, spacing, and layout, making your website look professional and clean.
- **JavaScript** : We'll add interactivity to your portfolio with JavaScript. This might include things like smooth scrolling or interactive elements that make your website more dynamic and engaging.
- **GitHub Pages** : Finally, we'll show you how to host your website on GitHub Pages for free, making it accessible to anyone, anywhere. You'll get hands-on experience with GitHub, which is an essential tool for any developer.

Why GitHub Pages?

GitHub Pages is a free hosting service that lets you host static websites directly from a GitHub repository. This makes it the perfect choice for hosting your portfolio because:

- It's completely free.
- It's easy to set up, even if you're a beginner.
- It integrates directly with GitHub, so you can easily update your portfolio as you make improvements or add new projects.

Additionally, using GitHub to host your portfolio shows employers that you're familiar with version control, which is a highly valuable skill in the tech industry.

Conclusion: Let's Get Started!

By the end of this book, you'll have created something tangible—a website that showcases your skills and passion for web development. Whether you're looking for a job, seeking freelance opportunities, or just building a personal brand, your portfolio website will be your digital calling card.

So, let's dive in and start building your portfolio website today. Grab your tools, fire up your text editor, and let's begin!

Chapter 1: Getting Started

What Tools You Need

Before we start building your portfolio website, let's make sure you have everything you need. Don't worry if you've never done this before—this chapter is designed to set you up for success. Below are the tools and resources we'll be using:

1. Text Editor :

- We recommend using Visual Studio Code (VS Code), a powerful, beginner- friendly text editor that's free to use. It supports extensions to make coding easier and more efficient.
- Alternative: Sublime Text, Zed, or even Notepad++.

2. Web Browser :

- Any modern browser will work, but we recommend **Google Chrome** or **Firefox Developer Edition** for their developer tools.

3. Git :

- Git is version control software that allows you to manage your code and track changes.
- Download and install Git from git-scm.com.



4. GitHub Account :

- GitHub is where we'll store your website's
- files and host your portfolio for free.
- Sign up for a free account at github.com.

Figure 1 Image of GitHub 5. **Basic Terminal Knowledge :**

logo

- We'll use the terminal (or command prompt) to push your files to GitHub.

Don't worry; we'll explain each command step by step.

6. A Notebook (Optional) :

- Keep a notebook or digital note-taking tool handy to jot down concepts, tips, and ideas as you go.

Installing Your Tools

Here's how to get your environment set up:

1. Install VS Code :

- Download it from Visual Studio Code's website.
- Follow the installation prompts for your operating system (Windows, Mac, or Linux).

2. Install Git :

- Download Git from git-scm.com.
- During installation, you'll be asked to configure settings like the default text editor (choose VS Code) and PATH environment. Stick to the default options unless otherwise noted.

3. Set Up GitHub :

- Create a GitHub account at github.com.
- After signing up, set up a new repository for your project (we'll go into detail later in Chapter 8).

4. Install Browser Extensions (Optional) :

- Install extensions like "Live Server" in VS Code for real-time updates as you work on your project.

Setting Up Your GitHub Pages Account

Let's quickly get your GitHub Pages account ready so you'll be all set when it's time to host your site.

1. Create a New Repository :

- Log in to your GitHub account and click the **New** button to create a repository.
- Name the repository something like my-portfolio and select "Public" so others can view it online.

2. Clone the Repository :

- In your terminal, type the following commands to connect your repository to your local computer: `git clone https://github.com/your-username/my-portfolio.git` `cd my-portfolio`
- Replace your-username with your GitHub username.

3. Add a README File :

- Create a README.md file in your repository. This file will describe your project. You can use this command in the terminal: `echo "# My Portfolio Website" > README.md`
- 4. **Set Up GitHub Pages :**
- Go to the "Settings" tab of your repository.
- Scroll down to **Pages** and select the branch (e.g., main) and folder (usually /root) where your site will be hosted.

Please note, if you are having trouble using the command line to push to github, you can manually add the files to the repository online.

Here is the everyday Git workflow you will use after each chapter. Run these commands in the terminal, inside your project folder:

```
git add .
git commit -m "Add header and navigation"
git push
```

Tip: The first time you use Git on a computer, tell it who you are with `git config --global user.name "Your Name"` and `git config --global user.email "you@example.com"`. GitHub no longer accepts account passwords for Git commands. When you run `git push`, sign in through the browser window that Git Credential Manager opens, or use a personal access token or an SSH key. Never put tokens or passwords inside your website files.

Ready to Build

Congratulations! Your tools are set up, and your GitHub repository is ready to go. You're now fully equipped to start building your portfolio website. In the next chapter, we'll dive into understanding the template you'll use and breaking down the structure of a web page.

Chapter 2: Understanding the Template

Why Start with a Template?

When you're starting out, building a website entirely from scratch can feel overwhelming. That's why we're using a pre-defined structure (a template) to guide you. This template provides a framework that will help you:

- Understand how HTML, CSS, and JavaScript work together.
- Focus on learning coding principles without getting lost in design choices.
- Build confidence by completing a functional project quickly.

In this chapter, we'll break down the **Portfolio Template** you'll create and customize step by step.

What Does the Template Include?

Your portfolio website will be made up of the following sections:

1. Header :

- This section will include your name or logo and a navigation bar.
- Example: "John Doe - Web Developer" with links to "About," "Projects," and "Contact."

2. Hero Section :

- A visually striking section to introduce yourself and your role.
- Example: A background image with text like, "Hi, I'm John, a Front-End Developer."

3. About Section :

- This section gives visitors an overview of who you are, your skills, and your journey.
- Example: A short bio and a list of skills or technologies like HTML, CSS, and JavaScript.

4. Projects Section :

- The main highlight of your portfolio where you'll showcase completed projects.
- Example: Cards or images for each project, with links to GitHub repositories or live demos.

5. Contact Section :

- A way for visitors to reach you.
- Example: A form to submit messages or links to your email and social media.

6. Footer :

- A simple footer to display copyright information or quick links.

Folder Structure

Before we start coding, let's map out how your project files will be organized. Keeping your files structured is crucial for clean and maintainable code. Below is the suggested folder structure. Create these folders and empty files now:

```
my-portfolio/  
|-- index.html  
|-- README.md  
|-- images/  
|   |-- hero.jpg  
|   |-- avatar.jpg  
|   |-- project-1.jpg  
|   |-- project-2.jpg  
|   |-- project-3.jpg  
|-- scripts/  
|   |-- script.js  
|-- styles/  
|   |-- style.css
```

Use lowercase file names with no spaces (for example `project-1.jpg`). Web servers such as GitHub Pages treat `Photo.JPG` and `photo.jpg` as different files. You will add your own images to the `images` folder. Free sources of photos include Unsplash and Pexels, and you can shrink big files with Squoosh. Aim for photos under 300 KB.

HTML Template: The Skeleton

Here's the basic structure of your `index.html` file. We'll fill in each part in the chapters ahead:

```
<!DOCTYPE html>  
<html lang="en">  
<head>  
  <meta charset="UTF-8">  
  <meta name="viewport" content="width=device-width, initial-scale=1.0">  
  <title>John Doe | Web Developer</title>  
  <meta name="description" content="Portfolio of John Doe, a front-end web developer.">  
  <link rel="stylesheet" href="styles/style.css">  
  <script type="module" src="scripts/script.js"></script>  
</head>  
<body>  
  <a class="skip-link" href="#main">Skip to main content</a>  
  
  <header class="site-header">  
    <!-- Header and navigation (Chapter 3) -->  
  </header>  
  
  <main id="main">  
    <!-- Hero section (Chapter 4) -->  
    <!-- About section (Chapter 5) -->
```

```

    <!-- Projects section (Chapter 6) -->
    <!-- Contact section (Chapter 7) -->
</main>

<footer class="site-footer">
    <!-- Footer (Chapter 7) -->
</footer>
</body>
</html>

```

Notice the semantic elements <header>, <main> and <footer>, the lang attribute, the viewport tag and the skip link. Screen reader and keyboard users rely on them. The script uses type="module", so it loads after the page has been read and no defer is needed.

Now open styles/style.css and add this foundation. It sets your colors in one place with CSS variables, makes sizing predictable, turns on smooth scrolling for people who have not asked for reduced motion, and gives keyboard users a clear focus outline:

```

/* styles/style.css - Foundation */
:root {
  --color-bg: #ffffff;
  --color-surface: #f6f7f9;
  --color-text: #1f2933;
  --color-muted: #52606d;
  --color-dark: #1f2933;
  --color-accent: #f4d03f;
  --color-primary: #0b57d0;
  --color-primary-dark: #0842a0;
  --radius: 0.5rem;
  --max-width: 75rem;
}

*, *::before, *::after {
  box-sizing: border-box;
}

html {
  scroll-padding-top: 5rem; /* keeps headings clear of the sticky header */
}

@media (prefers-reduced-motion: no-preference) {
  html { scroll-behavior: smooth; }
}

body {
  margin: 0;
  font-family: system-ui, -apple-system, "Segoe UI", Roboto, sans-serif;
  line-height: 1.6;
  color: var(--color-text);
  background-color: var(--color-bg);
}

img {
  display: block;
  max-width: 100%;
  height: auto;
}

```

```

}

a:focus-visible,
button:focus-visible,
input:focus-visible,
textarea:focus-visible {
  outline: 3px solid var(--color-primary);
  outline-offset: 3px;
}

.skip-link {
  position: absolute;
  top: -4rem;
  left: 1rem;
  z-index: 100;
  padding: 0.5rem 1rem;
  background-color: var(--color-accent);
  color: var(--color-dark);
}

.skip-link:focus {
  top: 1rem;
}

```

Finally, create an empty `scripts/script.js`. We will add to it in later chapters. Every color pair in this book was chosen to meet the WCAG 2.2 AA contrast ratio of 4.5:1, so keep the contrast high if you choose your own colors. You can check any pair for free with the [WebAIM Contrast Checker](#).

Customizing the Template

While the skeleton above is generic, the magic happens in **customization**. You'll add your personality and skills by:

- Writing engaging content for the **About Section**.
- Choosing or creating unique visuals for the **Hero Section** and **Projects Section**.
- Styling your site with **CSS** to match your brand.
- Adding interactive elements with **JavaScript**.

How It All Fits Together

Think of your portfolio website as a puzzle. Each section and file plays an important role:

- **HTML** : The structure or “bones” of the website.
- **CSS** : The design or “skin” that makes it look good.
- **JavaScript** : The interactivity or “muscles” that make it dynamic.

By the end of this book, you'll know how to put all the pieces together to create a functional, visually appealing, and professional website.

Next Steps

Now that you understand the template and structure, it's time to bring it to life! In **Chapter 3**, we'll begin coding the first section of your website—the **Header and Navigation Bar**.

Chapter 3: Building the Header and Navigation Bar

Introduction to the Header

The header is the first thing visitors see on your website. It serves two important purposes:

1. **Brand Identity** : This is where you showcase your name or logo, helping visitors know they're in the right place.
2. **Navigation** : It provides links to different sections of your website, making it easy to explore.

In this chapter, you'll learn to create a professional and functional header with a navigation bar that links to other sections of your portfolio.

What You'll Learn in This Chapter

- How to structure the header using HTML.
- How to style the header and navigation bar with CSS.
- Smooth scrolling with CSS, plus a little JavaScript to highlight the current section.

Step 1: Coding the Header Structure

Open your index.html file and locate the <header> tag. Add the following code:

```
<header class="site-header">
  <a class="logo" href="#hero">John Doe</a>
  <nav aria-label="Main">
    <ul class="nav-links">
      <li><a href="#hero">Home</a></li>
      <li><a href="#about">About</a></li>
      <li><a href="#projects">Projects</a></li>
      <li><a href="#contact">Contact</a></li>
    </ul>
  </nav>
</header>
```

Explanation:

- `<a class="logo">` : Contains your name or logo and links back to the top. You can replace "John Doe" with your name or an image (with alt text). We keep the page's only `<h1>` for the hero section in the next chapter.
- `aria-label="Main"` : Gives the navigation landmark a name so screen reader users can find it.

- **<nav>** : The navigation bar contains a list of links (and). These links are connected to the sections of your site using id attributes (e.g., #about, #projects).

Step 2: Styling the Header with CSS

Open your style.css file and add the following styles to give the header a professional look:

```
.site-header {
  position: sticky;
  top: 0;
  z-index: 10;
  display: flex;
  flex-wrap: wrap;
  justify-content: space-between;
  align-items: center;
  gap: 0.5rem 1.5rem;
  padding: 1rem 1.25rem;
  background-color: var(--color-dark);
  color: #fff;
}

.logo {
  font-size: 1.5rem;
  font-weight: 700;
  color: #fff;
  text-decoration: none;
}

.nav-links {
  display: flex;
  flex-wrap: wrap;
  gap: 1.25rem;
  margin: 0;
  padding: 0;
  list-style: none;
}

.nav-links a {
  color: #fff;
  text-decoration: none;
  padding-block: 0.25rem;
  border-bottom: 2px solid transparent;
  transition: color 0.3s ease, border-color 0.3s ease;
}

.nav-links a:hover,
.nav-links a[aria-current="true"] {
  color: var(--color-accent);          /* accent color for hover and current page */
  border-color: var(--color-accent);
}

.site-header a:focus-visible {
  outline-color: var(--color-accent); /* the default blue is hard to see on dark */
}
```

Explanation:

- **display: flex;** : Aligns the logo and navigation links horizontally.
- **justify-content: space-between;** : Adds space between the logo and navigation bar.
- **Hover effect** : Changes the link color on hover to make it more interactive.

Step 3: Adding Smooth Scrolling

Smooth scrolling makes transitions between sections feel fluid. Modern browsers can do this with CSS alone, and you already added it in the foundation styles: `scroll-behavior: smooth` inside a `prefers-reduced-motion: no-preference` media query. People who are sensitive to motion get a normal jump instead, which is the respectful default. The `scroll-padding-top` rule keeps each section heading from hiding under the sticky header.

JavaScript is still useful for small enhancements. Add this to `scripts/script.js` to highlight the navigation link for the section currently on screen:

```
// scripts/script.js
const links = document.querySelectorAll('.nav-links a[href^="#']');

const sections = [...links]
  .map((link) => document.querySelector(link.getAttribute("href")))
  .filter(Boolean);

const observer = new IntersectionObserver(
  (entries) => {
    entries.forEach((entry) => {
      if (!entry.isIntersecting) return;

      links.forEach((link) => {
        const isCurrent = link.getAttribute("href") === `#${entry.target.id}`;
        if (isCurrent) {
          link.setAttribute("aria-current", "true");
        } else {
          link.removeAttribute("aria-current");
        }
      });
    });
  },
  { rootMargin: "-40% 0px -55% 0px" } // a section counts when it crosses the middle of the screen
);

sections.forEach((section) => observer.observe(section));
```

Explanation:

- `querySelectorAll` collects the navigation links, and each link's `href` (such as `#about`) is used to find its section.
- An `IntersectionObserver` watches those sections and tells us when one is on screen, without slow scroll listeners.

- The current link gets `aria-current="true"`, which both styles it (see the CSS above) and tells screen readers which section is active.

Step 4: Testing Your Header

1. Open your website in a browser and make sure the header looks as intended.
2. Click the navigation links and confirm they scroll to the correct sections. (Until you add the other sections in the next chapters, there will be nothing to scroll to.)
3. Press the Tab key. You should see a clear outline on every link, and the "Skip to main content" link should appear first.
4. Adjust colors, fonts, or spacing as needed to match your style.

What's Next?

Now that your header and navigation bar are set up, we'll move on to the **Hero Section** in Chapter 4. This is where you'll create a strong first impression with a visually striking introduction.

Chapter 4: Designing the Hero Section

Introduction to the Hero Section

The **Hero Section** is the first large section visitors see when they land on your site. It's an opportunity to make a powerful impression. A well-designed hero section introduces who you are and what you do while setting the tone for the rest of your portfolio.

In this chapter, you 'll create a visually engaging hero section that highlights your name, title, and a brief introduction. You'll also learn how to style the hero section with an eye-catching background and a call-to-action button.



What You'll Learn in This Chapter

- Structuring the hero section with HTML.
- Adding and styling a background image with CSS.
- Creating a bold call-to-action button.
- Ensuring responsiveness across different screen sizes.

Step 1: Coding the Hero Section Structure

Add the following code to your index.html file, inside the <main> element:

```
<section id="hero" class="hero-section">
  <div class="hero-content">
    <h1>Hello, I'm John Doe</h1>
```

```
<p>I'm a web developer passionate about creating clean, functional,  
and visually appealing websites.</p>  
<a href="#projects" class="cta-button">View My Work</a>  
</div>  
</section>
```

Place this inside the `<main>` element, as the first section.

Step 2: Styling the Hero Section with CSS

Open your `style.css` file and add the following styles for the hero section:

```
.hero-section {  
  min-height: 100vh;  
  min-height: 100svh; /* fits mobile browsers with toolbars */  
  display: grid;  
  place-items: center;  
  padding: 2rem 1.25rem;  
  text-align: center;  
  color: #fff;  
  background-color: var(--color-dark); /* shown if the image is missing */  
  background-image:  
    linear-gradient(rgb(0 0 0 / 0.55), rgb(0 0 0 / 0.55)), /* dark overlay for readable text */  
    url("../images/hero.jpg");  
  background-size: cover;  
  background-position: center;  
}  
  
.hero-content {  
  max-width: 45rem;  
}  
  
.hero-content h1 {  
  margin: 0 0 1.25rem;  
  font-size: clamp(2.25rem, 5vw + 1rem, 4rem);  
  line-height: 1.1;  
}  
  
.hero-content p {  
  margin: 0 0 2rem;  
  font-size: clamp(1.1rem, 1.5vw + 0.75rem, 1.5rem);  
}  
  
.cta-button {  
  display: inline-block;  
  padding: 0.75rem 1.5rem;  
  font-size: 1.125rem;  
  font-weight: 600;  
  color: var(--color-dark);  
  background-color: var(--color-accent);  
  border-radius: var(--radius);  
  text-decoration: none;  
  transition: background-color 0.3s ease, transform 0.3s ease;  
}  
  
.cta-button:hover {
```

```
background-color: #ffd23f;
transform: translateY(-2px);
}
```

Explanation:

- `min-height: 100svh;` : Makes the hero section at least as tall as the visible screen. `svh` accounts for mobile browser toolbars, and the `100vh` line above it is a fallback for very old browsers.
- `background-image` : Adds a background photo from your `images` folder (the path starts with `../` because the CSS file is inside the `styles` folder). The dark linear-gradient on top keeps the white text readable on any photo, and the solid `background-color` is a fallback if the image is missing. Save your own image as `images/hero.jpg`.
- **Centered Content** : `display: grid; place-items: center;` is the shortest way to center content horizontally and vertically.
- **Fluid Text** : `clamp(min, preferred, max)` lets the heading grow smoothly with the screen width but never go below or above the limits you choose.
- **CTA Button** : Styled with a bright color to stand out and grab attention, with hover effects for interactivity.

Step 3: Making the Hero Section Responsive

To ensure your hero section looks great on every screen size, add these media queries to your `style.css` file:

```
/* Responsive Hero Section */
/* The heading and paragraph are already fluid because of clamp().
   Add extra room on larger screens: */
@media (min-width: 48rem) {
  .hero-section {
    padding: 4rem 3rem;
  }
}

/* Respect visitors who prefer less motion */
@media (prefers-reduced-motion: reduce) {
  .cta-button {
    transition: none;
  }

  .cta-button:hover {
    transform: none;
  }
}
```

Explanation:

- Text sizes adapt automatically because of `clamp()`, so you need fewer media queries. Use media queries for bigger layout changes. Write your base styles for small screens first, then add `min-width` queries for larger ones (this is called mobile-first design).

- Ensures the hero section remains visually balanced on all devices.

Step 4: Testing Your Hero Section

1. Open your site in a browser to see the hero section in action.
2. Save your own photo as images/hero.jpg to personalize the background.
3. Test the site on different screen sizes (desktop, tablet, mobile) to confirm responsiveness.

What's Next?

With a stunning hero section completed, we're ready to move on to **Chapter 5: Crafting the About Section**. Here, you'll dive deeper into your story, skills, and what makes you unique as a developer.

Chapter 5: Crafting the About Section

Introduction to the About Section

The **About Section** is your chance to tell visitors more about yourself and what sets you apart as a developer. It's an opportunity to connect with your audience, share your skills, experience, and values, and make your portfolio feel personal.

In this chapter, we'll design an About Section that highlights who you are, what you do, and your unique strengths. You'll also learn how to integrate visuals like profile pictures or icons to make the section more engaging.



What You'll Learn in This Chapter

- Structuring an About Section with HTML.
- Styling text and images for a clean, professional look.
- Adding a list of skills or services with a CSS checkmark.
- Making the section responsive for different screen sizes.

Step 1: Coding the About Section Structure

Add the following code to your index.html file, below the hero section:

```
<section id="about" class="about-section">
  <div class="about-content">
    <div class="about-text">
      <h2>About Me</h2>
```

```

    <p>
      Hi, I'm John Doe, a passionate web developer with a knack for
      turning ideas into visually appealing and functional websites. With
      experience in HTML, CSS, and JavaScript, I aim to deliver solutions
      that are user-friendly and impactful.
    </p>
    <p>
      Outside of coding, I enjoy exploring new technologies, solving
      complex problems, and collaborating with like-minded individuals to
      create amazing projects.
    </p>
  </div>
  
</div>
</section>

```

Explanation:

- **<section id="about" class="about-section">** : Creates the About Section and assigns an ID and class for styling and navigation.
- **<div class="about-content">** : Wraps the text and image into a flex container for side-by-side alignment.
- **<div class="about-text">** : Contains the heading and paragraphs to introduce yourself.
- **** : Displays your profile picture. Save your photo as `images/avatar.jpg`. The `alt` text describes the photo, `width` and `height` reserve space so the page does not jump while it loads, and `loading="lazy"` waits to load the image until the visitor scrolls near it.

Step 2: Styling the About Section

Open your `style.css` file and add the following styles for the About Section:

```

.about-section {
  padding: 4rem 1.25rem;
  background-color: var(--color-surface);
}

.about-content {
  display: flex;
  flex-wrap: wrap;
  align-items: center;
  justify-content: center;
  gap: 2rem;
  max-width: var(--max-width);
  margin-inline: auto;
}

.about-text {
  flex: 1 1 24rem;
  max-width: 38rem;
}

```

```

.about-text h2 {
  margin: 0 0 1rem;
  font-size: clamp(2rem, 3vw + 1rem, 2.5rem);
}

.about-text p {
  margin: 0 0 1.25rem;
  font-size: 1.125rem;
  line-height: 1.8;
  color: var(--color-muted);
}

.about-image {
  flex: 0 1 18rem;
  width: 100%;
  max-width: 18rem;
  aspect-ratio: 1;
  object-fit: cover;
  border-radius: 50%;
  box-shadow: 0 4px 10px rgb(0 0 0 / 0.1);
}

```

Explanation:

- **Flexbox Layout** : Aligns text and image side by side, with space to wrap on smaller screens.
- **Padding and Background** : Adds spacing around the section and a light background color for contrast.
- **Typography** : Uses clean, readable font sizes and line spacing for text.
- **Rounded Image** : Applies a circular style to the profile picture for a polished look.

Step 3: Making the About Section Responsive

Add these media queries to your style.css file to ensure the About Section looks great on all devices:

```

/* Responsive About Section */
@media (max-width: 48rem) {
  .about-content {
    flex-direction: column;
    text-align: center;
  }

  .about-image {
    max-width: 12.5rem;
  }
}

```

Explanation:

- On tablets and smaller screens, the text and image stack vertically for readability.
- The image size and text are adjusted for smaller displays to maintain balance.

Step 4: Adding Skills or Services (Optional)

To make your About Section more dynamic, add a list of your skills or services. Inside the about-text div, below the second paragraph, add this HTML:

```
<div class="skills">
  <h3>My Skills</h3>
  <ul>
    <li>Web Development</li>
    <li>UI/UX Design</li>
    <li>Database Management</li>
    <li>Cybersecurity</li>
  </ul>
</div>
```

Then add this CSS. The checkmark comes from CSS, so there is nothing extra to download. If you want real icons later, use inline SVG images (give decorative icons `aria-hidden="true"`) rather than loading a large icon library:

```
/* Skills */
.skills {
  margin-top: 2rem;
}

.skills h3 {
  margin: 0 0 1rem;
  font-size: 1.75rem;
}

.skills ul {
  margin: 0;
  padding: 0;
  list-style: none;
}

.skills li {
  display: flex;
  align-items: center;
  gap: 0.75rem;
  margin-bottom: 0.75rem;
  font-size: 1.125rem;
  color: var(--color-muted);
}

.skills li::before {
  content: "\2713";          /* a checkmark */
  font-weight: 700;
  color: var(--color-primary);
}
```

What's Next?

With your About Section completed, visitors now have a chance to connect with your story and skills. In **Chapter 6: Building the Projects Section** , you'll showcase your best work with interactive project cards.

Chapter 6: Showcasing Your Projects

Introduction to the Projects Section

The **Projects Section** is the heart of your portfolio website. This is where you showcase your best work to demonstrate your skills and creativity. Each project should highlight what you built, how you approached the problem, and the technologies you used. In this chapter, we'll build a visually appealing Projects Section with interactive project cards. These cards will include titles, descriptions, images, and links to live demos or



GitHub repositories.

What You'll Learn in This Chapter

- Structuring the Projects Section using HTML.
- Styling project cards with CSS for a clean, professional layout.
- Adding hover effects to make the cards interactive.
- Making the section responsive for various screen sizes.

Step 1: Coding the Projects Section Structure

Add the following code to your index.html file, below the About Section:

```
<section id="projects" class="projects-section">
  <h2>My Projects</h2>
  <div class="projects-container">
```

```

<article class="project-card">
  
  <h3>Project 1: Portfolio Website</h3>
  <p>A personal portfolio website showcasing my skills, projects, and
    contact information. Built with HTML, CSS, and JavaScript.</p>
  <a href="https://github.com/username/portfolio"
    target="_blank" rel="noopener noreferrer">View Project 1 on GitHub</a>
</article>

<article class="project-card">
  
  <h3>Project 2: Online Store</h3>
  <p>An online store with a product catalog, shopping cart, and a
    checkout page that uses a secure payment provider.</p>
  <a href="https://github.com/username/store"
    target="_blank" rel="noopener noreferrer">View Project 2 on GitHub</a>
</article>

<article class="project-card">
  
  <h3>Project 3: Blog</h3>
  <p>A responsive blog that lets visitors read, search and share posts.</p>
  <a href="https://github.com/username/blog"
    target="_blank" rel="noopener noreferrer">View Project 3 on GitHub</a>
</article>

</div>
</section>

```

Explanation:

- **<section id="projects" class="projects-section">** : Defines the Projects Section with an ID for navigation and a class for styling.
- **<div class="projects-container">** : Wraps all project cards in a grid layout.
- **<article class="project-card">** : Represents one self-contained project card with an image, title, description, and link. Each link has its own descriptive text, and `rel="noopener noreferrer"` keeps the new tab safely separate from your site.

Step 2: Styling the Projects Section

Open your style.css file and add the following styles for the Projects Section:

```

/* Projects Section */
.projects-section {
  padding: 4rem 1.25rem;
  background-color: var(--color-bg);
}

.projects-section h2 {
  margin: 0 0 2.5rem;
}

```

```
    text-align: center;
    font-size: clamp(2rem, 3vw + 1rem, 2.5rem);
}

.projects-container {
  display: grid;
  grid-template-columns: repeat(auto-fit, minmax(min(100%, 18.75rem), 1fr));
  gap: 1.5rem;
  max-width: var(--max-width);
  margin-inline: auto;
}

.project-card {
  overflow: hidden;
  text-align: center;
  background-color: var(--color-surface);
  border-radius: 0.75rem;
  box-shadow: 0 4px 10px rgb(0 0 0 / 0.1);
  transition: transform 0.3s ease, box-shadow 0.3s ease;
}

.project-card img {
  width: 100%;
  aspect-ratio: 3 / 2;
  object-fit: cover;
}

.project-card h3 {
  margin: 1.25rem 1rem 0.75rem;
  font-size: 1.5rem;
}

.project-card p {
  margin: 0 1.25rem 1.25rem;
  color: var(--color-muted);
}

.project-card a {
  display: inline-block;
  margin-bottom: 1.5rem;
  padding: 0.625rem 1.25rem;
  background-color: var(--color-primary);
  color: #fff;
  text-decoration: none;
  border-radius: 0.375rem;
  transition: background-color 0.3s ease;
}

.project-card a:hover {
  background-color: var(--color-primary-dark);
}

.project-card:hover {
  transform: translateY(-0.5rem);
  box-shadow: 0 6px 15px rgb(0 0 0 / 0.2);
}
```

Explanation:

- **Grid Layout** : `repeat(auto-fit, minmax(min(100%, 18.75rem), 1fr))` creates as many columns as fit, each at least 18.75rem wide (and never wider than the screen), so the cards reflow from one column on phones to three on desktops with no media query.
- **Card Styling** : Applies a modern design with rounded corners, shadows, and smooth hover effects.
- **Hover Effects** : Adds interactivity by moving the card slightly upward and darkening the shadow on hover.

Step 3: Making the Projects Section Responsive

To ensure the Projects Section looks great on all devices, add these media queries to your `style.css` file:

```
/* Responsive Projects Section */
@media (max-width: 30rem) {
  .projects-section {
    padding-inline: 1rem;
  }

  .project-card h3 {
    font-size: 1.25rem;
  }
}

/* Respect visitors who prefer less motion */
@media (prefers-reduced-motion: reduce) {
  .project-card,
  .project-card a {
    transition: none;
  }

  .project-card:hover {
    transform: none;
  }
}
```

Explanation:

- The grid already adjusts to one project card per row on small screens. These rules tighten the spacing and respect the "reduce motion" setting.
- Always test on a real phone as well as in the browser's device mode.

Step 4: Adding More Projects

To add more projects, simply duplicate an `<article class="project-card">` block and update the content. Replace the image, project title, description, and link with your project details.

What's Next?

Your Projects Section is now live and ready to impress visitors. In **Chapter 7: Contact Section** , we'll create a simple yet effective way for people to reach out to you.

Chapter 7: Personalizing Your Website

In this chapter, we'll focus on adding the finishing touches to your portfolio website by personalizing the Contact and Footer Sections.

These elements will give your website a polished, professional look while making it easy for visitors to connect with you. We'll also cover testing and finalizing your website to ensure it works seamlessly.

What You'll Learn in This Chapter

- Building a functional Contact Section with a form or contact links.
- Designing a professional Footer Section with branding and social links.
- Testing your website for responsiveness and cross-browser compatibility.
- Deploying your finalized website on GitHub Pages.

Section 1: Creating the Contact Section

Step 1: Adding the Contact Form A Contact Section is essential for allowing potential clients or collaborators to reach out. Add this code to your index.html file after the Projects Section:

```
<section id="contact" class="contact-section">
  <h2>Contact Me</h2>
  <p>I'd love to hear from you! Feel free to reach out using the form
    below or through my social links.</p>

  <form action="https://formspree.io/f/YOUR_FORM_ID" method="POST"
    class="contact-form">
    <label for="name">Your name</label>
    <input type="text" id="name" name="name" autocomplete="name"
      minlength="2" maxlength="80" required>

    <label for="email">Your email</label>
    <input type="email" id="email" name="email" autocomplete="email" required>

    <label for="message">Your message</label>
    <textarea id="message" name="message" rows="5"
      minlength="10" maxlength="500" required></textarea>

    <button type="submit">Send Message</button>
  </form>
</section>
```

Explanation:

- **Formspree Integration** : Allows you to process form submissions without backend coding. Replace YOUR_FORM_ID with your Formspree form ID after you create a free form on formspree.io. There are many similar services, so research one that fits your needs and privacy requirements. Never put passwords or secret API keys in your HTML.

- **Labels** : Every field has a visible `<label>` connected with `for` and `id`. Placeholders disappear as soon as someone types and are not a substitute. Labels also make the fields easier to tap on a phone.
- **Name Field** : `autocomplete="name"` lets the browser fill it in, and `minlength` and `maxlength` keep the length reasonable. We do not restrict the characters with a pattern, because real names include hyphens, apostrophes and accented letters, and a strict pattern would reject them.
- **Email Field** : `type="email"` makes phones show the right keyboard and the browser checks the format for you.
- **Message Field** : `minlength` and `maxlength` enforce a message between 10 and 500 characters, and the browser shows a clear error message automatically.
- **Spam and Safety** : Browser validation is a convenience, not security. Your form service validates again on its server and can filter spam. Turn on its spam protection.

Step 2: Styling the Contact Section

Add the following styles to your `style.css` file:

```
/* Contact Section */
.contact-section {
  padding: 4rem 1.25rem;
  background-color: var(--color-surface);
  text-align: center;
}

.contact-section h2 {
  margin: 0 0 1rem;
  font-size: clamp(2rem, 3vw + 1rem, 2.5rem);
}

.contact-section > p {
  max-width: 40rem;
  margin: 0 auto 2.5rem;
  color: var(--color-muted);
}

.contact-form {
  display: grid;
  max-width: 37.5rem;
  margin-inline: auto;
  text-align: left;
}

.contact-form label {
  margin-bottom: 0.25rem;
  font-weight: 600;
}

.contact-form input,
.contact-form textarea {
  width: 100%;
```

```

margin-bottom: 1rem;
padding: 0.75rem;
border: 1px solid #7b8794;
border-radius: var(--radius);
font: inherit;
}

.contact-form button {
  justify-self: start;
padding: 0.75rem 1.5rem;
border: 0;
border-radius: var(--radius);
background-color: var(--color-primary);
color: #fff;
font: inherit;
font-weight: 600;
cursor: pointer;
transition: background-color 0.3s ease;
}

.contact-form button:hover {
  background-color: var(--color-primary-dark);
}

```

Explanation:

- **Input Styling** : Ensures a clean and professional appearance for form fields.
- **Button Hover Effects** : Adds interactivity when users hover over the "Send Message" button.

Section 2: Designing the Footer Section

The Footer Section provides a professional way to wrap up your website while reinforcing your branding.

Step 1: Adding the Footer

Add the following code to your index.html file at the bottom:

```

<footer class="site-footer">
  <p>&copy; <span id="year">2026</span> Your Name. All rights reserved.</p>
  <ul class="social-links">
    <li><a href="https://github.com/username"
      target="_blank" rel="noopener noreferrer">GitHub</a></li>
    <li><a href="https://linkedin.com/in/username"
      target="_blank" rel="noopener noreferrer">LinkedIn</a></li>
  </ul>
</footer>

```

Replace the empty comment inside the footer you created in Chapter 2 with this content (the <footer> element itself is already there). The year is written as 2026 and a tiny script keeps it current. Add this to the end of scripts/script.js:

```
// Keep the copyright year up to date
const year = document.querySelector("#year");
if (year) {
  year.textContent = new Date().getFullYear();
}
```

Step 2: Styling the Footer

Add the following CSS to your style.css file:

```
/* Footer */
.site-footer {
  padding: 1.5rem 1.25rem;
  background-color: var(--color-dark);
  color: #fff;
  text-align: center;
}

.site-footer p {
  margin: 0;
}

.social-links {
  display: flex;
  justify-content: center;
  gap: 1.25rem;
  margin: 0.75rem 0 0;
  padding: 0;
  list-style: none;
}

.social-links a {
  color: #9ec1ff; /* light blue: 8:1 contrast on the dark footer */
  text-decoration: underline;
  text-decoration-color: #9ec1ff;
  text-decoration-offset: 0.2em;
}

.social-links a:hover {
  color: #fff;
}

.site-footer a:focus-visible {
  outline-color: var(--color-accent);
}
```

Explanation:

- **Footer Background** : A dark background gives the footer a clean, professional finish.
- **Social Links** : Styled as inline links with hover effects for a modern look.

Section 3: Testing and Finalizing Your Website

Before launching your website, it's crucial to test it for functionality, responsiveness, and compatibility.

Step 1: Checklist for Testing

1. **Responsiveness** : Check how your website looks on various devices (desktop,

Also run **Lighthouse** (built into Chrome DevTools, in the Lighthouse tab) on your page. It scores accessibility, performance, SEO and best practices and tells you exactly what to fix. Aim for scores of 90 or higher.

tablet, and mobile) by right-clicking and using the inspect element in your browser. 2. **Forms** : Submit the Contact Form to ensure it works correctly, you may have to

activate your form first. 3. **Links** : Verify that all navigation and social media links are functional. 4. **Browser Compatibility** : Test your website in multiple browsers (Chrome, Firefox,

Safari, Edge).

Step 2: Deploying Your Website

Deploying your website on GitHub Pages is easy. Follow these steps:

1. Commit all changes to your GitHub repository. 2. Go to the repository settings on GitHub. 3. Scroll down to the **Pages** section. 4. Select the branch (main or master) and root folder to deploy. 5. Your website will be live at <https://username.github.io/repository-name>.

In **Chapter 8: Conclusion** , we'll summarize the skills you've learned and discuss next steps for expanding your portfolio.

Chapter 8: Launching Your Website

Introduction

Congratulations! You've built and personalized your portfolio website. Now, it's time to make it accessible to the world. In this chapter, we'll guide you through the steps to launch your website using **GitHub Pages**, a free and reliable hosting platform. By the end of this chapter, your website will be live and ready to share with potential clients, employers, and collaborators.

8.1 Preparing Your Project for Deployment

Before deploying your website, let's ensure everything is polished and functional.

1. Check Your Code :

- Validate your HTML using the W3C Validator.
- Validate your CSS using the W3C CSS Validator.
- Test JavaScript functionality in multiple browsers (e.g., Chrome, Firefox, Safari).

Optimize Images :

- Use tools like TinyPNG or ImageOptim to compress image files without losing quality.

Ensure Mobile Responsiveness :

- Test your website on different screen sizes using Chrome Developer Tools or Responsive Design Checker.

8.2 Setting Up GitHub Pages

GitHub Pages is a simple way to host your website directly from a GitHub repository.

1. Create a GitHub Repository :

- Go to GitHub and log in or create an account.
- Click on the **New Repository** button.
- Name your repository yourusername.github.io and set it to **Public**.
- Click **Create Repository**.

2. Upload Your Website Files :

- On your computer, ensure all website files (HTML, CSS, JavaScript, images, etc.) are in a single folder.
- In your GitHub repository, click on **Add file > Upload files**.
- Drag and drop your website folder contents into the GitHub interface.
- Click **Commit changes** to save the files to your repository.

3. Enable GitHub Pages :

- In your repository, go to **Settings > Pages** .
- Under "Build and deployment," choose "Deploy from a branch," then select main (or the branch where your files are located) and the / (root) folder.
- Click **Save** .
- Your website URL will appear (e.g., [https://yourusername.github.io/portfolio- website](https://yourusername.github.io/portfolio-website)).

8.3 Testing and Sharing Your Website

Now that your site is live, it's time to ensure it's working perfectly.

1. Test Your Website :

- Open your GitHub Pages URL in a browser (<https://yourusername.github.io>).
- Check all links, images, and forms to ensure they work correctly.

2. Share Your Website :

- Add your website link to your email signature, LinkedIn profile, and other professional networks.
- Share it with friends, family, and mentors for feedback.

8.4 Troubleshooting Common Issues

Sometimes, things might not go as planned. Here are some common problems and solutions:

1. Page Not Found Error :

- Ensure your index.html file is in the root folder of your repository.

2. Broken Images or Links :

- Check that file paths are correct and match your repository structure.
- Ensure filenames match exactly (case-sensitive).

3. CSS or JavaScript Not Loading :

- Confirm that the <link> and <script> tags in your HTML have correct paths.

Conclusion

With your website live, you've taken a huge step toward showcasing your skills and projects. This chapter marks the culmination of your journey from learning basic coding to deploying a professional portfolio. Remember, your website is a living project — continue updating it with new projects, skills, and designs as you grow.

After you publish: Turn on **Enforce HTTPS** in Settings > Pages so your site loads securely. Never commit passwords, API keys or private files to a public repository, because everyone can read them. If you want your own web address, such as yourname.com, you can add a custom domain in the same Pages settings. Other free hosts that work the same way include Netlify, Cloudflare Pages and Vercel.

Let's move to the final chapter, where we'll reflect on what you've learned and discuss the next steps in your coding journey!

Chapter 9: Reflection and Next Steps

Introduction

Congratulations! You've reached the final chapter of this journey. By now, you've gone from understanding the basics of HTML, CSS, and JavaScript to building, personalizing, and deploying a fully functional portfolio website. This chapter will serve as a moment to reflect on your accomplishments, celebrate your progress, and plan your next steps as a web developer.

9.1 Reflecting on Your Journey

Take a moment to look back at how far you've come.

- **What You've Learned :**
 - How to structure web pages with HTML.
 - How to style and design websites using CSS.
 - How to add interactivity with JavaScript.
 - The importance of responsive design and accessibility.
 - How to deploy a live website using GitHub Pages.
- **What You've Built :**
 - A personalized portfolio website that showcases your skills and projects.
 - A foundation for future projects and opportunities in web development.

These are significant milestones! Many people aspire to learn coding but never take the first step—you've gone beyond that and created something real.

9.2 Beyond the Basics: What's Next?

Now that you've built your first project, it's time to think about how to keep growing. Here are some suggestions:

1. Expand Your Portfolio :

- Add new projects that highlight a range of skills (e.g., animations, APIs, or databases).
- Tackle real-world problems by creating tools or websites for friends, family, or small businesses.

- **2. Learn Advanced Topics :**
 - **Front-End Frameworks :** Explore React, Vue, Svelte, or Angular, and consider TypeScript to build dynamic user interfaces.

- **Back-End Development :** Learn about server-side technologies like Node.js, Express, or Python with Flask/Django.

- **Database Integration :** Dive into databases like MongoDB, MySQL, or

PostgreSQL to build full-stack applications. 3. **Join a Coding Community :**

- Participate in forums like freeCodeCamp, Stack Overflow , or Reddit's coding communities.
- Attend local coding meetups or online events to network and learn.

4. **Contribute to Open Source :**

- Join GitHub projects to collaborate with other developers and gain real-world experience.

5. **Stay Updated :**

- The tech industry evolves quickly. Follow blogs, YouTube channels, and podcasts to stay current with trends and best practices.

9.3 Pursuing Opportunities

Your portfolio website is your calling card in the tech world. Use it to unlock new opportunities:

- **Freelancing :** Offer your web development services to small businesses or individuals.
- **Job Applications :** Showcase your portfolio to potential employers as part of your application process.
- **Personal Branding :** Build an online presence by linking your website to your LinkedIn, GitHub, and social media profiles.

9.4 2026 Best Practices for Your Portfolio

- **Show a few great projects, not many weak ones.** For each project, explain the problem, what you built, the tools you used and what you learned. Link to the live site and the code.
- **Make it accessible.** Meaningful alt text, labels on forms, strong color contrast, keyboard access and semantic HTML. Hiring managers notice this.
- **Make it fast.** Compress images, set image sizes and keep your scripts small. Check with Lighthouse before every release.
- **Make it responsive.** Test on a real phone, a tablet and a large monitor.
- **Keep it secure.** Use HTTPS, never publish secrets, keep a form service between visitors and your inbox, and only share contact details you are comfortable making public.
- **Keep your code clean.** Use clear names, consistent formatting (Prettier helps), comments that explain why, and a README that tells visitors how to run the project.
- **Use Git well.** Make small commits with clear messages. Your commit history shows how you work.
- **Keep it current.** Review your portfolio every few months, remove outdated work and update the copyright year and links.

9.5 Words of Encouragement

The journey of learning web development is never truly over—it's a continuous process of discovery, problem-solving, and growth. Every bug you fix, feature you add, or project you complete will sharpen your skills and build your confidence. Remember:

- It's okay to make mistakes—that's how you learn.
- Ask for help when you need it. The developer community is supportive and full of resources.
- Stay curious, and don't be afraid to experiment.

You've already proven that you have the determination to succeed. The web development world is full of possibilities, and you're just getting started.

Conclusion

This book was the beginning of your coding journey, but it's not the end. You now have the tools to build your ideas, showcase your skills, and pursue your goals. Keep coding, keep learning, and keep building.

Your future in web development is bright — go out there and create something amazing!

Happy Coding!

Thank You for Reading!

Stay Connected

Your journey in coding and programming doesn't end here! Stay up-to-date with the latest resources, tips, and updates by connecting with us:

Website: <https://bioglytchstudios.tech> **Email:** software@bioglytchstudios.tech **Social Media:**

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Stay Curious, Keep Coding!

Remember, coding is a journey, not a destination. Keep learning, building, and innovating. The world of technology awaits your creations!