BWALYA'S PERSONAL PORTFOLIO WEBSITE DOCUMENTATION

PREPARED BY

BWALYA CHISANGA

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1. **INTRODUCTION**

Welcome to the documentation for Bwalya's Portfolio Website! This comprehensive guide is designed to provide you with insights into the development, features, and maintenance of this personalized space showcasing Bwalya's skills, projects, and achievements. Whether you're a fellow developer, a potential collaborator, or simply curious about the technologies behind the scenes, this documentation serves as your go-to resource.

About Bwalya's Portfolio

Bwalya's Portfolio is a dynamic and visually engaging representation of Bwalya's journey in the world of technology and creativity. This space not only serves as a showcase for projects and accomplishments but also as a testament to Bwalya's passion for innovation and learning.

Purpose of this Documentation

This documentation is crafted to provide a deep dive into the various aspects of the portfolio website. From the technologies powering the frontend to the intricacies of the design choices, you'll find valuable information here. Whether you are interested in contributing, customizing, or just exploring, this guide is your gateway to understanding the inner workings of Bwalya's digital presence.

Who is Bwalya?

Bwalya is a dedicated individual with a penchant for pushing boundaries in the digital realm. This portfolio is a reflection of not just technical prowess but also a showcase of creativity, problem-solving, and a commitment to continuous improvement. By delving into this documentation, you're invited to explore the mind behind the code and the inspirations that drive Bwalya's work.

How to Use this Documentation

This guide is organized into sections covering everything from installation to future enhancements. Whether you are a developer looking to understand the codebase or an enthusiast exploring the projects, you'll find relevant information tailored to your needs. Feel free to navigate through the chapters and discover the intricacies of Bwalya's Portfolio.

Thank you for being a part of this journey. Let's explore and celebrate the world of technology and creativity together through Bwalya's Portfolio!

2. **TECHNOLOGIES USED**

HTML5- The structural backbone of the website, providing a semantic and organized markup.

CSS3:- Styling the portfolio with CSS3 for a visually appealing and responsive layout.

JavaScript:- Enhancing interactivity and user experience with dynamic content and client-side scripting.

Bootstrap:-Leveraging the power of Bootstrap for a mobile-first approach, ensuring a responsive and consistent design across various devices.

FontAwesome:- Integrating scalable vector icons to enhance the visual aesthetics of the website.

Google Fonts- Incorporating custom fonts for a unique and attractive typographic design.

Responsive Design-I mplementing media queries and responsive design principles to ensure optimal performance on various screen sizes.

This list provides a glimpse into the technologies powering Bwalya's Portfolio. For more in-depth details and configurations, refer to specific sections in the documentation.
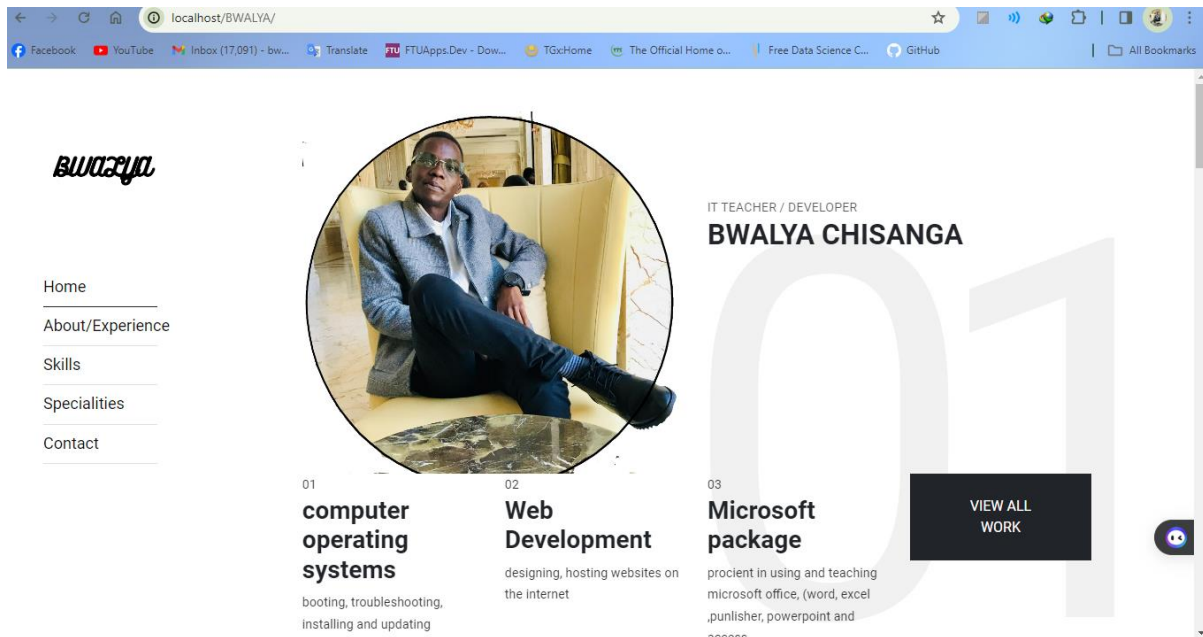
3. **INSTALLATION**

Prerequisites:

1. Code Editor: Install a code editor like Visual Studio Code, Sublime Text, or any other preferred editor.

2. Git: Ensure that Git is installed on your local machine for version control

3. Node.js and NPM: Install Node.js and NPM to manage project dependencies.

4. **DESIGN AND LAYOUT**

HOME PAGE/ HEADER SECTION

NAVIGATION BAR WITH LINKS TO VARIOUS SECTIONS.

Home

About/Experience

Skills

Specialities

Contact
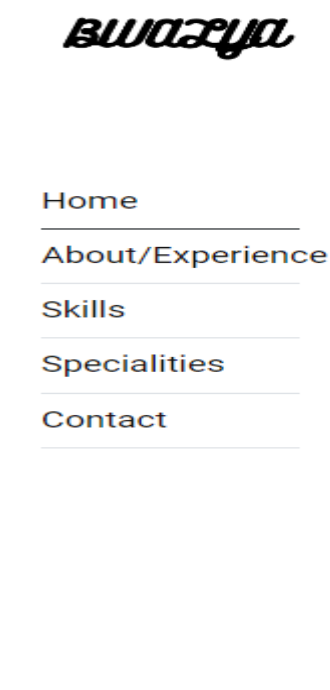
ABOUT ME SECTION:

Education

2019 - 2021

Diploma in Information Technology with education

university of zambia

2014 - 2017

secondary school certificate

kasama boys secondary school

2014 - 2017

Jounior secondary school certificate

chifwani mission school

Experiences

2023-2024

BIU CAPITAL LTD: I.T SPECIALIST

Performed all I.T related jobs(network installation/ troubleshooting, software configuration/ installation, hardware installation/ troubleshooting

2021-2022

SINGULARITY FINANCIAL SOLUTIONS: LOAN OFFICER/ IT TECHNICIAN

Performed all loan officer duties and performed all I.T related jobs(network installation/ troubleshooting, software configuration/ installation, hardware installation/ troubleshooting and marketing duties

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SKILLS SECTION:

SKILLS

Skill	Level
operating systems	90%
systems analysis	75%
Microsoft package	80%
Web Development	90%
computer diagnostics	95%

COLOR SCHEME

- **Primary Color:**

  - #3498db (a calming blue for the primary theme).

- **Secondary Color:**

  - #2ecc71 (a fresh green for accents and highlights).

- **Background Color:**

  - #ecf0f1 (a light gray for readability).

FONT CHOICES

- **Heading Font:**

  - 'Montserrat', sans-serif.

- **Body Font:**

  - 'Lato', sans-serif.

5. FEATURES

- Responsive Design:
- Interactive Home Page:
- About Me Section:
- Skills Showcase:
- Projects Showcase:
- Project Detail Pages:
- Contact Section
- Dynamic Resume Section
- Testimonials Section
- Blog or Articles Section
- Social Media Integration.

6 TESTING

Unit Testing:

  - Verify individual components and functions to ensure they work as expected

Integration Testing:

  - Test the interaction between different sections and components.

  - Ensure seamless transitions and functionality across various pages.

Browser Compatibility Testing:

  - Test the website on popular browsers such as Chrome, Firefox, Safari, and Edge.

  - Ensure consistency in appearance and functionality.

Mobile Device Testing:

  - Test the website on various mobile devices (phones and tablets).

  - Ensure responsiveness and optimal user experience.

Tablet Testing

  - Verify the layout and usability on tablet devices.

  - Ensure a comfortable and intuitive user experience.

Cross-Platform Testing:

  - Test the website on different operating systems (Windows, macOS, Linux).

  - Verify consistent behavior and appearance.

Performance Testing:

  - Evaluate the website's loading speed using tools like Lighthouse or PageSpeed Insights.

  - Optimize images and files for faster loading times.

User Experience (UX) Testing

  - Gather feedback from potential users or stakeholders.

  - Ensure the website's navigation is intuitive and user-friendly.

Accessibility Testing:

  - Evaluate the website's accessibility using tools like WAVE or Axe.

  - Ensure compliance with WCAG guidelines.

Security Testing

  - Conduct security scans to identify and address vulnerabilities.

- Ensure secure handling of user data and sensitive information.

Form Testing

  - Test all forms on the website, including the contact form.

  - Verify form submissions and error handling.

Link and Navigation Testing:

  - Check all internal and external links for accuracy.

  - Ensure navigation is seamless and all buttons and links are functional.

Print-Friendly Testing

  - Check the print-friendly version of the resume for readability and format.

  - Ensure a clean and well-structured print output.

Cross-Device Compatibility

  - Test the website on a variety of devices with different screen sizes and resolutions.

  - Ensure a consistent and visually appealing experience.

Continuous Testing:

  - Implement continuous integration tools for automated testing.

  - Ensure that new changes do not introduce regressions.

7. CONTACT INFORMATION

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