

W.G. Kotzee

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Objective:

Passionate and self-taught web developer and programmer with a two year background in studying Mechatronic engineering, seeking an internship opportunity to apply my skills in JavaScript, HTML, and CSS to real-world projects and further develop my programming abilities. Trained by a mentor to ensure industry best practices.

Technical Skills:

Languages: JavaScript, HTML, CSS, C (fundamentals)

Web Development: Front-End Development, Responsive Design

Version Control: Git

Tools: CodeBlocks, Matlab, MPLAB x IDE, Arduino, Visual Studio Code.

Training:

Mentored by Hennie van Schalkwyk.

- Received hands-on training and guidance in web development best practices.
- Gained insights into effective coding techniques, code organization, and project structuring.
- Tested my coding and problem-solving abilities within complex coding challenges.

Projects:

1. Portfolio
 - Designed and developed a responsive portfolio website using HTML, CSS, and JavaScript.
 - Showcased personal projects, skills, and contact information.
 - Implemented smooth animations and transitions for enhanced user experience.
 - GitHub Repository: [WGKotzee/Portfolio \(github.com\)](https://github.com/WGKotzee/Portfolio)
 - Website Link: [W.G. Kotzee - Portfolio \(ornate-muffin-448bc9.netlify.app\)](https://W.G.Kotzee-Portfolio(ornate-muffin-448bc9.netlify.app))

2. Quote-Generator

- Designed and developed a web application utilizing HTML, CSS, and JavaScript to create a dynamic quote generator.
- The user interface features a button that, upon interaction, generates and displays random inspirational quotes sourced from a predefined collection.
- This project demonstrates proficiency in front-end development, user interaction, and integrating JavaScript functionality for real-time content generation.
- GitHub Repository: [WGKotzee/Quote-Generator \(github.com\)](https://github.com/WGKotzee/Quote-Generator)

3. BMI Calculator

- Developed a BMI calculator web page using HTML, CSS, and JavaScript to provide users with a quick and accurate calculation of their Body Mass Index.
- Users input their height and weight, and the application instantly computes and displays their BMI.
- This project showcases my ability to create user-friendly interfaces, capture user input, and perform calculations dynamically using JavaScript.
- GitHub Repository: [WGKotzee/BMI-Calculator \(github.com\)](https://github.com/WGKotzee/BMI-Calculator)

4. WGMovies - Movie Streaming Website

- Crafted a movie streaming platform utilizing HTML, CSS, and JavaScript, bolstered by my ability to create a user-friendly front end with password-protected access.
- Users can search for movies within the site's database and stream them live.
- This project illustrates my skills in front-end design, user authentication, data retrieval, and delivering an interactive web experience.
- GitHub Repository: [WGKotzee/WGMovies \(github.com\)](https://github.com/WGKotzee/WGMovies)

5. My Website - Countdown Timer & Alarm System

- Initiated a countdown timer web application using HTML, CSS, and JavaScript, designed to count down to specific events with precision down to days, hours, minutes, and seconds.
- Additionally, implemented a functional alarm system that notifies users upon event completion.
- This project highlights my aptitude for creating interactive and dynamic interfaces, as well as integrating time-based logic.
- GitHub Repository: [WGKotzee/My_Website \(github.com\)](https://github.com/WGKotzee/My_Website)

6. Test - Car Information Program

- Constructed a basic JavaScript program that utilizes a class structure to define different types of cars and their associated information.
- The program permits users to search for specific car models and presents comprehensive details when a match is found.

- This project underscores my proficiency in object-oriented programming, data retrieval, and logical problem-solving.
- GitHub Repository: [WGKotzee/Test \(github.com\)](https://github.com/WGKotzee/Test)

7. RandomWeb - Compilation Website

- Curated a comprehensive website employing HTML, CSS, and JavaScript, merging several previous projects into a single platform.
- Integrated functionalities from the BMI calculator, quote generator, countdown timer, and a weather dashboard powered by the openweathermap API.
- This project showcases my proficiency in aggregating diverse functionalities and creating a holistic user experience.
- GitHub Repository: [WGKotzee/RandomWeb \(github.com\)](https://github.com/WGKotzee/RandomWeb)
- Website Link: [RandomWeb \(luxury-melomakarona-3f25e7.netlify.app\)](https://luxury-melomakarona-3f25e7.netlify.app)

8. PIC24FJ64GA002 Microcontroller Circuit with LCD Display

- Configured and programmed a PIC24FJ64GA002 microcontroller, demonstrating advanced knowledge of microcontroller architecture and low-level programming in C.
- Implemented a physical on-off button that I programmed myself, allowing users to control the circuit's operation. This showcases my ability to design user-friendly interfaces and handle input mechanisms.
- Developed code to display messages on a small LCD screen, showcasing skills in interfacing with hardware components and controlling output displays.
- Overcame challenges in hardware setup, debugging, and ensuring proper signal communication between the microcontroller and peripheral devices.
- GitHub Repository: [WGKotzee/Github-2nd-Year](https://github.com/WGKotzee/Github-2nd-Year)

Skills Development:

- Self-taught through online resources, tutorials, and hands-on projects.
- Received mentorship to ensure industry-relevant skills and practices.
- Continuously learning and staying updated with the latest web development trends and technologies.

Extracurricular Activities:

- Participated in online coding challenges and forums to enhance problem-solving skills.
- Actively engaged in personal coding projects and improvement courses.

References:

Available upon request.