

# Siyabonga Zungu

FULL STACK DEVELOPER

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## Websites, Portfolios, Profiles

- <https://www.linkedin.com/in/siyabonga-zungu-851a501b4/>
- <https://216037150.github.io/portfolio-continuing/>
- <https://github.com/216037150?tab=repositor>

Experienced Full Stack Developer with a robust foundation in HTML, CSS, Python, and JavaScript, complemented by proficiency in GitHub. Hands-on experience in full stack development, utilizing technologies such as Java, Node.js, React, MySQL, PHP, and PostgreSQL. Specialized training under ABSA has further honed skills in delivering high-quality, scalable solutions across various platforms.



## Skills

- ◆ CSS proficiency
- ◆ JavaScript programming
- ◆ RESTful APIs development
- ◆ HTML expertise
- ◆ 3+ Years of experience using Git Version Control
- ◆ SQL Expertise
- ◆ UI and UX design principles
- ◆ Django framework
- ◆ Javascript
- ◆ JIRA
- ◆ Software Applications
- ◆ Java
- ◆ Node.js Experience
- ◆ Web Technologies: AngularJS, jQuery, Bootstrap
- ◆ 3+ Years experience in MySQL

- ◆ Team Collaboration
- ◆ Server-Side Rendering
- ◆ Vue.js understanding
- ◆ Object-Oriented Programming
- ◆ Agile development methodologies
- ◆ Teamwork and Collaboration
- ◆ GitHub collaboration
- ◆ Analytical Skills
- ◆ ReactJS Knowledge
- ◆ Responsive Web Design
- ◆ PHP
- ◆ WordPress



## Work History

### Jan 2024 - Jun 2024 **FULL STACK DEVELOPER**

*UVU AFRICA, Cape Town, South Africa*

- Enhanced user experience by developing responsive front-end designs using HTML, CSS, and JavaScript.
- Improved website loading time and responsiveness by optimizing images, minifying CSS/JavaScript files, and leveraging browser caching techniques.
- Designed RESTful APIs for seamless integration between frontend components and backend services of web applications.
- Worked with senior developers and designers to implement responsive website using HTML, CSS, JavaScript, Node.JS, MongoDB and MySQL to store the database.
- Conceived and built optimized landing pages in HTML and CSS for integration and cross-browser compatibility.
- Planned and engineered RESTful web services to manipulate dynamic datasets.
- Used Java to Implement the learning Management System
- Used Python to implement to banking app, and used the tkinter as our GUI

### Feb 2020 - Dec 2023 **SI Leader: MATH130, MATH140, MATH212, MATH251**

*University Of KwaZulu-Natal - Westville Campus, Durban, South Africa (Remote)*

- Organized workshops on study skills, time management, test-taking strategies, reducing stress levels during exams.
- Improved student understanding of core concepts through clear explanations, visual aids, and real-life examples.

- Maintained detailed records of session plans, participant attendance rates.
- Developed effective study materials for improved student understanding and retention.

**Feb 2021 -  
Nov 2023**

### **Tutor: Introduction to Computer Science COMP100**

*University Of KwaZulu Natal, Durban, South Africa*

- Provided homework assistance using specific curriculum and materials.
- Motivated students towards learning and studying to build self-confidence and reduce fear of failure.
- Supported students with helpful study habits and exam strategies.
- Collaborated with students to complete homework assignments, identify lagging skills, and correct weaknesses.

**Feb 2022 -  
Nov 2022**

### **Mentor : Computer Science**

*University Of KwaZulu-Natal - Westville Campus, Durban*

- Enhanced mentee performance by providing personalized guidance and support.
- Adapted mentorship style based on individual mentee needs, enabling tailored interventions that drove better results than one-size-fits-all approaches.
- Provided guidance and recommended coping mechanisms for youth dealing with difficult issues.
- Developed and led special events that increased decision making, problem-solving and good judgment.
- Collaborated with fellow mentors to exchange best practices, ensuring continuous improvement of mentoring strategies.
- Helped students develop organizational, time management and study skills.



## **Education**

**May 2024**

### **Master of Science: Astronomy And Astrophysics**

*University of KwaZulu-Natal - Durban, South Africa*

- Degree Awarded with masters in astrophysic research
- Wrote a Thesis which explain the model for classifying the stars from galaxies

**May 2024**

### **National Certificate NQF Level 5: Information Tech: Software Engineering**

*WeThinkCode - Durban, South Africa*

- Completed the robot simulations in java and python

**Apr 2020**

### **Bachelor of Science: Honours in Astrophysics And Space Science**

*University of KwaZulu Natal - Durban, Westville*

Developed the machine learning simulation to solve the projectile motions



May 2019

## Bachelor of Science: BSc(M)

University of KwaZulu Natal - Pietermaritzburg

- Studied Mathematics, Computational Physics, and statistics



## Certifications



Mar 2024 Java Data Structure



Mar 2024 Udemy: Full Web Development



Apr 2024 Udemy: Git For Biginners



Apr 2024 Simpli Learn: NodeJs



Apr 2024 Le Wagon: UI/UX Design



Apr 2024 Solo Learn: JavaScript Intermediate



Apr 2024 LinkedIn: Learning Git and GitHub



Apr 2024 Udemy: Git



Mar 2024 Great Learning: PHP



Nov 2023 AWS Well-ArchitectedFoundation



Nov 2023 Microsoft Azure Fundamentals: Describe cloud concepts



Jul 2024 Geat Learning: Python for Machine Learning and Data Science



Jul 2023 IBM: SQL and Relational Databases



Sep 2022 IBM: Web Development Basics



Jul 2022 IBM: Introduction to Artificial Intelligence



Jul 2022 Udemy: Master SQL For Data Science



Jan 2021 Udemy: Python for Data Science and Machine Learning



Jan 2023 Introduction AWS



## Personal Project



### 1. Booking System

**Repository:** [https://github.com/216037150/Booking\\_System.git](https://github.com/216037150/Booking_System.git)

# Overview

This web application is built using Node.js with Express, MongoDB, and serves a frontend with HTML, CSS, and JavaScript. The application allows users to submit a form and stores the submitted data in a MongoDB database. It also provides an endpoint to retrieve all

submitted form data.

## Requirements

To run this application, you need to have the following installed:

Node.js (v12 or later)  
npm (Node Package Manager)  
MongoDB

# Backend (Node.js with Express) ; Serve-side

The backend is implemented in server.js and provides the following functionalities:

Connects to a MongoDB database.  
Serves static files from the client directory.  
Handles form submission and stores data in the MongoDB database.  
Provides an endpoint to retrieve all form data.

## # Running the Application

### 1. Start the MongoDB server

### 2. Run the Node.js server: nodemon server.js

### 3. Open a web browser and go to: <http://localhost:8000>

You should see a form that you can fill out and submit. The submitted data will be stored in the MongoDB database, and you can retrieve all form data by accessing the /formData endpoint.

# Environment Variables

> PORT: The port on which the server will run. Default is 8000.  
> MONGODB\_URI: The URI for the MongoDB database. Default is  
mongodb://localhost:27017/.  
> DB\_NAME: The name of the database. Default is customer.

# Frontend (HTML, CSS, JavaScript): client-side

The frontend is located in the client directory and consists of an HTML form styled with CSS and interactivity added with JavaScript.

## 2. Survey Application

**Repository:** [https://github.com/216037150/form\\_survey.git](https://github.com/216037150/form_survey.git)

This project is a full-stack web application that allows users to fill out a survey form, submit their responses, and view the collected data. It consists of a backend server built with Node.js and Express, a MongoDB database to store survey responses, and a frontend with HTML, CSS, and JavaScript.

**Database Connection:**The MongoClient is used to connect to the MongoDB database.

**Database name:** FormSurvey

**Collection name: CollectedData**

**API Endpoints:POST /form:** Handles form submission by inserting the submitted data into the MongoDB collection.

**GET /formData:** Retrieves all the form data stored in the MongoDB collection.

**Static Files:**The server serves static files from the client directory, allowing the frontend to be loaded.

**HTML Structure:**Form Page (index.html): Contains the survey form where users input their personal details and preferences.

**Data Display Page (displayData.html):** Displays the collected survey data in a table format.

**Form Validation and Submission:**JavaScript is used to validate the form fields before submission, ensuring all required fields are filled out and valid.

On successful validation, form data is collected and sent to the server using the Fetch API.

### **3. Landing Page:** <https://216037150.github.io/LandingPage/>

The project is a landing page for promoting a Higher Certificate in Software Engineering.

The page is designed to attract potential students by highlighting the benefits of enrolling in the program, including career advancement and immersive learning experiences.

- **HTML:** For the structure of the landing page.
- **CSS:** For styling the page, including custom styles defined within the HTML file.
- **JavaScript:** For adding interactivity, such as alert messages on button clicks.
- **External Resources:** Font Awesome for icons and external CSS for additional styling.

### **4. Snake Game:** <https://216037150.github.io/snakeGame/>

This is a simple Snake game built using HTML, CSS, and JavaScript.