

# Siphelele Audacious

## Maphumulo

Software Developer

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🌐 <https://shorturl.at/aMgDw>



[Siphelele A Maphumulo](#)



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[Siphelele Audacious Maphumulo](#)

## Summary

Organized and self-motivated software developer graduate with 2+ years combined internship and professional experience. Fluent in .Net C#, Java, SQL, Python, HTML, JavaScript, React, Angular and CSS programming languages. Possess practical working knowledge of relational databases using SQL Server, Cloud, and Agile Development. Constantly updating personal and professional technical skills with complementary collegiate courses and online bootcamps. Reliable and responsible team player.

## Experience

### Code SA Institute (PTY) LTD

Software Developer & Technical Supporter

Unit 8E trio Industrial Park, \* shepstone Road, New Germany, Durban

07-2022 - Current

🔗 <https://codingmadeeasy.org/>

- Develop and enhance software solutions to support educational programs in coding, robotics, and artificial intelligence.
- Collaborate with certified trainers to create engaging, hands-on learning experiences for students.
- Provide technical support to trainers and students, troubleshooting issues and ensuring smooth technology operations.
- Assist in implementing proven teaching strategies that empower learners and broaden their perspectives.
- Contribute to the delivery of internationally acclaimed educational programs aligned with SAQA standards and accredited by MICT SETA.
- Foster an inclusive and supportive learning environment that prepares students for higher education and future employment opportunities.

### Mangosuthu University of Technology

Tutor (Teachers Assistant)

February 2024 - December 2024

511 Griffiths Mxenge Hwy, Umlazi, Durban, 4031

🔗 <https://www.mut.ac.za/>

- Facilitated tutorials and classes for entry-level students in Software Development, focusing on **Introduction to Programming**.
- Delivered instruction on the fundamentals and basic principles of programming in **Java**, including:
  - Understanding basic syntax and structure of Java programming language.
  - Implementing variables, data types, and operators in Java.
  - Writing and executing simple Java programs.
  - Mastering control structures such as loops and conditionals for flow control.
  - Introducing object-oriented programming concepts including classes, objects, methods, and encapsulation.
  - Assisting students in problem-solving techniques and debugging Java code.
  - Providing hands-on exercises and practical assignments to reinforce learning.

### Thembelihle-IT-Solutions

Founder & Full Stack Software Developer

March 2023 - Present

Online

🔗 <https://siphelele-maphumulo.github.io/Thembelihle-IT-Solutions/>

- Act as a **Full Stack Software Developer** and **Python Facilitator**, providing expertise in various programming languages and technologies.
- Provide expert consultation services to assess client needs and offer strategic recommendations for optimizing IT infrastructure and operations.
- Deliver rapid solutions to IT challenges through a dedicated tech support team, ensuring timely assistance and troubleshooting for smooth system operations.
- Create visually appealing and responsive websites that enhance online presence, captivate audiences, and drive engagement.
- Develop custom software solutions tailored to client requirements, delivering high-quality, efficient, and scalable web and mobile applications.
- Design, develop, and optimize engaging mobile applications for iOS and Android platforms, ensuring a seamless user experience.
- Implement advanced strategies and technologies to protect digital assets, safeguarding data and systems from cyber threats and breaches.

## Education

### Mangosuthu University of Technology

Diploma in Software Development

4.03

February 2019 - December 2022

Information Technology (IT)

A dedicated and accomplished student specializing in Information Technology with a Diploma in IT: Software Development. Demonstrated expertise in software engineering, programming languages, and systems analysis, complemented by strong performance in technical subjects. Achieved distinction in multiple courses, reflecting a commitment to academic excellence and a solid foundation in computing fundamentals, computer mathematics, and problem-solving. Recognized with the Vice Chancellor's Award and qualification award with cum laude honors, showcasing leadership and dedication to continuous learning in the rapidly evolving tech landscape.

### Mangosuthu University Of Technology

ICT Applications Development

2.84

February 2024 - December 2024

Advanced Diploma Program

A committed student pursuing an **Advanced Diploma in ICT in Applications Development**, with a solid foundation in applications development, computer security, and ICT management. Successfully completed a range of courses, demonstrating proficiency in research techniques and methodologies essential for systems development. Achieved distinction in key subjects, reflecting a strong understanding of advanced programming, project management, and software testing. Prepared to tackle challenges within the applications development field, equipped with practical skills and theoretical knowledge.

### Durban University of Technology

Information Technology (Business Applications)

1.27

2013 - 2016

National Diploma

A dedicated student pursuing a **National Diploma in Information Technology (Business Applications)**, demonstrating resilience in overcoming academic challenges. Completed diverse modules, including business analysis, financial accounting, and various aspects of systems software.

### Coursera, Google and IBM

Software Development and Cloud Computing

44.5

2021 - Present

Online Learning

The courses I completed are primarily from **Coursera**, featuring partnerships with esteemed institutions and industry leaders (Google & IBM) geared towards equipping learners with market-relevant skills in software development, cloud technologies, and more.

## Projects

### Veterinarian Management System

Create a Windows application using C#

2021

🔗 <https://siphelele-maphumulo.github.io/Portfolio/Projects.html>

I was tasked with developing a Pet Tracker System that will assist pet owners to recover lost / stolen pets. I built a desktop application using a database that allows a veterinarian or pet owner to register pet owners, register pets, check pet status if they are lost or recovered, transfer pet ownership and select/insert/update/delete records from database

C#, SQL

### Post of Sales System

2021 - 2022

I create an inventory and sales management system. It allows users to capture and update stock information, including prices and stock levels.

I was tasked to create an inventory and sales management system. Which allows users to capture and update stock information, including prices and stock levels. Users can also track stock received, sold out, and available, and record sales to calculate daily, monthly, and annual sales figures. It also handles customer returns of products, which affect both sales and inventory levels. The system also allows users to calculate and record discounts offered to customers, which is essential for preparing income statements.

NetBeans, java, SQL

### Dice Game

2020 - 2021

I created a dice game that randomly "throws" five dice for the computer and five dice for the player. The application displays the die values for both the computer and player.

I was tasked to create a game randomly "throws" five dice for the computer and five dice for the player. The application displays the die values for both the computer and player. The winner will be decided based on the following hierarchy of Die values. Any higher combination beats a lower one; for example, five of a kind beats four of a kind; four of a kind beats three of a kind, etc.

Visual Studio 2019, C#, SQL

### Online Learning System

2022

I developed an online testing and grading system for students and lecturers. Students and lecturers can log in to the system and have access to different panels.

The system ensures that only registered students can take tests, and lecturers can set multiple choice and true or false tests. Students can take tests at the set date and time, and the duration of the test is clearly displayed, decreasing as time passes. The test is automatically submitted when the time lapses, and lecturers can view students' grades and download them in excel format. The system also allows lecturers to set multiple tests and students can review the correct or incorrect answers of their test after it's marked.

NetBeans, java, SQL

### Rehabilitation Website

2021

I created a dynamic ASP.NET website using C# for an NGO called the StreetKids Rehabilitation Center.

The NGO's goal is to rehabilitate children who are addicted to drugs and provide them with food, shelter, clothes, medical care, and counseling. The website's primary objective was to publicize the NGO's activities and programs, as well as to raise funds from the public through donations. Donors must register and log in to the website to make donations. The Center depends on funding from public and corporate sponsors to continue running their programs.

Visual Studio 2019, C#, ASP.Net, SQL

### Taxi Mobile App

2022

Developed an E-Hailing taxi services app which intends to manage the taxi business industry and its fleet.

My app will be dedicated to establishing good business relationships between taxi owners, drivers and taxi passengers giving them more value for their money and simplifying terms to hire their services. This includes conveying to passengers' brief information about a specific taxi, its driver, and its owner. This shall help to uniquely identify each taxi in cases of emergencies, accidents, bad driving, hiring, and reporting. Clients will have to enter a taxi number plate to access information of each taxi.

Angular, Ionic, Capacitor, Firebase, MYSQL

### Stock Taking App

2020

I developed a system that is designed to manage inventory and manufacturing operations for a company called Mshayis Edetech.

The application allows the workers to track the stock levels of their products and add new products when the current stock is running low. The app also keeps the inventory updated by indicating any changes made to the stock such as adding new products or selling them out, and it records the date of these changes. The manufacturing staff can access the app to view which products need to be manufactured and which ones are still in stock.

NetBeans, java, Excel, MYSQL

### Hardware Store App

2022

I developed a mobile application that allows customers of a hardware store to make online purchases.

The primary goal is to develop a **user-friendly mobile application** that simplifies the online shopping experience for the hardware store's customers. This includes seamless user registration, intuitive product browsing, and efficient order placement, all while ensuring secure and reliable backend operations.

Visual Studio Code, Ionic, Angular, Firebase, MySQL

## References

### Dr Mutanga

Head of Department at Mangosuthu University of Technology

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072 265 7439

### Mrs Lungile Mthethwa

Founder of Code SA Institute (PTY)LTD

[info@codingmadeeasy.org](mailto:info@codingmadeeasy.org)

063 313 7391

### Ocule IT

Bongeka Ngcongco (Office Administrator)

[bongeka.ngcongco@oculeit.com](mailto:bongeka.ngcongco@oculeit.com)

031 023 0864

### Dambuzo Community Development Trust

Mrs. P Mabaso (Director)

[mabasop@dyds.org.za](mailto:mabasop@dyds.org.za)

073 465 0924

### Mangosuthu University of technology

Mr Motshilili (Lecture)

[motsilili.phomolo@mut.ac.za](mailto:motsilili.phomolo@mut.ac.za)

060 465 4901

### MSSL Global RSA Module Engineering Limited

Mrs Joubert (Agent)

[SouthCost@expresspros.co.za](mailto:SouthCost@expresspros.co.za)

083 291 9994

## Skills

### Software Development Processes

Proficient in various software development methodologies, including Agile and Waterfall, with a focus on optimizing workflows for efficiency and collaboration in software projects.

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Agile, Waterfall, DevOps,

Software Lifecycle, Project Manage

### Programming in Java and C#

Proficient in developing software solutions using Java and C#, including object-oriented programming principles and problem-solving techniques.

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Java, Object-Oriented Programming, Algorithms,

Data Structures, Software Development, C#, Spingboot, .Net, Blazor

### Web Development (HTML, CSS, JavaScript)

Skilled in creating dynamic and responsive websites employing HTML5, CSS3, and JavaScript for effective user interfaces and experiences.

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HTML, CSS, JavaScript,

Responsive Design, Front-End Development

### Python Programming

Experienced in using Python for various applications, including scripting, data analysis, and developing algorithms to solve complex problems.

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Python, Data Structures, Algorithms, Scripting

### Structured Query Language (SQL)

Well-versed in using SQL for database management, including querying, updating, and manipulating data in relational databases.

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SQL, Database Management,

Data Manipulation, Relational Databases, Queries

### Cloud Computing (AWS)

Basic knowledge in Amazon Web Services (AWS) for deploying, managing, and scaling applications in the cloud, with a solid understanding of services like EC2, S3, and Lambda.

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AWS, Cloud Architecture,

EC2, S3, Serverless

### Version Control with Git and GitHub

Proficient in using Git for version control, enabling collaborative software development through efficient tracking of changes in code repositories. Skilled in leveraging GitHub for project management, code review, and continuous integration workflows.

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Git, GitHub, Version Control,

Collaboration, Code Review, Continuous Integration, Branching, Merging

### Software Testing and Deployment

Experienced in implementing various software testing methodologies, including unit testing, integration testing, and system testing to ensure software quality. Proficient in deploying applications using automated deployment tools and practices, ensuring smooth transitions from development to production environments.

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Software Testing, Unit Testing, Integration Testing,

Deployment, Continuous Deployment, Quality Assurance (QA), Automation, Testing Frameworks

## Interests

### Machine Learning Projects

Machine Learning, Data Science, Python, TensorFlow

### Code Camps

Programming, Hackathons, Skill development, Collaboration

### Innovation

Technology, Entrepreneurship, Creative solutions, Workshops Additional Interests Photography

### Marathon Running

Long-distance running, Endurance, Fitness, Personal achievements

### Camping and Hiking

Outdoor exploration, Nature appreciation, Fitness, Adventure

### Reading Books

Fiction, Psychology, Technology, Literature

### Cheese

Gourmet cheese, Wine pairing, Culinary exploration, Artisan varieties

### Video Games

Game design, Storytelling mechanics, Entertainment, Multiplayer gaming

### Soccer

Recreational soccer, Professional leagues, Physical fitness, Team sports

## Certifications

### Amazon Web Services (AWS)

January 6, 2023

Coursera

🔗 <https://www.coursera.org/account/accomplishments/specialization/certificate/PCWQLM9JCM2N>

In this Specialization, learners gained proficiency in essential concepts, services, and use cases within the Amazon Web Services (AWS) cloud ecosystem, including core AWS services and key AWS security concepts. The Specialization also covered fundamental strategies for planning and migrating existing workloads to AWS and how to build and deploy serverless applications with AWS. Learners are given opportunities to solidify their understanding by engaging in various hands-on labs and exercises throughout the Specialization.

### Software Development Processes and Methodologies

January 25, 2023

Coursera

🔗 <https://www.coursera.org/account/accomplishments/certificate/YA753U3Y8YGQ>

an online non-credit course authorized by University of Minnesota and offered through Coursera

### Java Programming: Solving Problems with Software

Nov 21, 2022

Coursera

🔗 <https://www.coursera.org/account/accomplishments/certificate/EZZ883JA46MU>

an online non-credit course authorized by Duke University and offered through Coursera

### HTML, CSS, and Javascript for Web Developers

Nov 15, 2022

Coursera

🔗 <https://www.coursera.org/account/accomplishments/certificate/7KUDSYJSP5BL>

an online non-credit course authorized by Johns Hopkins University and offered through Coursera

### Merge, Sort and Filter Data in Python Pandas

Nov 7, 2022

Coursera

🔗 <https://www.coursera.org/account/accomplishments/verify/DGQNHLWNH7Q4>

an online non-credit project authorized by Deprecated Guided Projects and offered through Coursera

### Introduction to Software Engineering

Oc t 28 , 2022

Coursera

🔗 <https://www.coursera.org/account/accomplishments/certificate/249GBL3R8MHWW>

an online non-credit course authorized by IBM and offered through Coursera

### Introduction to Structured Query Language (SQL)

Oc t 18 , 2022

Coursera

an online non-credit course authorized by University of Michigan and offered through Coursera

### Programming for Everybody (Getting Started with Python)

Sep 22, 2022

Coursera

🔗 <https://www.coursera.org/account/accomplishments/certificate/C69YLCBY2G6K>

an online non-credit course authorized by University of Michigan and offered through Coursera

### IBM Blockchain Essentials V2

September 07, 2022

IBM

🔗 <https://www.credly.com/earner/earned/badge/a13c7055-c8e9-4935-9fb3-9fcee985ff3c>

Certificates develops an understanding of Blockchain principles and practices and how they can be applied within a business environment. Yiou know have an understanding of Blockchain and distributed ledger systems, the important concepts and key use cases of Blockchain and how assets can be transferred in a Blockchain network.

### Getting Started with Threat Intelligence and Hunting

November 24, 2021

IBM

🔗 <https://www.credly.com/earner/earned/badge/c4ffc60d-6511-41ec-aa73-b5662737d946>

This certificate earner has completed all the learning activities included in this online learning experience, including hands-on experience, concepts, methods and tools related to the threat intelligence and hunting domain. The individual has demonstrated domain knowledge and understanding in adopting practices, methods and tools that relates to the activities performed in cyber threat hunting.

### Cybersecurity Fundamentals

August 10, 2022

IBM-SkillsBuild

🔗 <https://www.credly.com/earner/earned/badge/00a04410-ec4c-4de9-a6bb-342632fa556a>

This credential earner demonstrates a foundational understanding of cybersecurity concepts, objectives, and practices. This includes cyber threat groups, types of attacks, social engineering, case studies, overall security strategies, cryptography, and common approaches that organizations take to prevent, detect, and respond to cyber attacks. This also includes an awareness of the job market. Earners can use this knowledge to pursue further education