



Siphelele Audacious Maphumulo

Junior Software Developer

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Profiles

[Siphelele Maphumulo](#)

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Summary

I am an agile and dedicated Software Developer with 0-1 professional years of experience delivering enterprise-grade software solutions that enhance operational efficiency and support strategic business goals. Holding an Advanced Diploma in Information and Communication Technology, recognized with the Vice Chancellor's Award for Excellence, I am committed to continuous learning and professional growth aligned with Toyota's values of Respect for People and Continuous Improvement.

My technical expertise spans full-stack development using C#, .NET, Java, PHP, Python, React.js, Node.js, and SQL databases (MySQL/PostgreSQL). I excel at building efficient, scalable, and user-centric systems that drive innovation and operational excellence. As a self-starter and resilient problem solver, I am passionate about contributing meaningfully to society and industry while developing leadership skills through structured mentorship, training, and on-the-job learning opportunities.

Experience

Mangosuthu University of Technology

Feb, 2024 - Dec, 2024

Programming Tutor (Teachers Assistant)

Durban, South Africa

- Facilitated hands-on tutorials and workshops for first-year students, focusing on **Introduction to Programming** and problem-solving relevant to real-world software development environments.
- Taught foundational programming in **Java, C#, and Python**—languages widely used in enterprise and manufacturing systems—covering:
 - Syntax, data types, and control structures essential for scalable system logic
 - Program structure, modular code development, and basic debugging
 - Introduction to **Object-Oriented Programming (OOP)** principles, including classes, methods, encapsulation, and reusability—skills critical for large-scale system development
- Guided students in writing efficient, well-structured code to simulate scenarios similar to real-world production and IT support systems.
- Developed practical coding exercises and challenges designed to mirror common tasks in **industrial IT environments**, such as input/output handling, error trapping, and user interaction.
- Encouraged analytical thinking and best practices in code readability, maintainability, and performance—key qualities for contributing to production-critical systems like those used at **Mondi**.

OculeIT (Code SA Institute (PTY) LTD)

Jul, 2024 - current

Software Developer & Technical Supporter (Intern)

Kloof & New Germany, South Africa

- Designed and developed **custom, high-performance web and mobile software solutions**, tailored to meet both client-specific and institutional needs, with a focus on **scalability, accessibility, and UI/UX quality**.
- Built and optimized **cross-platform mobile applications** for iOS and Android using modern frameworks, ensuring fast performance and seamless integration across devices.
- Developed **educational and enterprise-grade tools** supporting learning in coding, robotics, and AI—showcasing the ability to deliver technically sound, purpose-driven applications in dynamic environments.
- Delivered **technical support and infrastructure guidance** to trainers and end-users, ensuring uninterrupted operation of digital systems and platforms.
- Assessed business and client requirements, providing **strategic IT recommendations** to optimize workflow efficiency, system security, and data performance—skills directly relevant to Mondi's production-oriented operations.
- Led the end-to-end development of applications using a full-stack toolkit:
 - Front-end:** HTML, CSS, JavaScript, React, Angular, Vue
 - Back-end:** Node.js, Java, Python, PHP
 - Databases:** MySQL, PostgreSQL (on-prem and cloud-based), with regular backup, access control, and tuning
- Applied **Agile methodologies** across development cycles, performing both **manual and automated software testing** to ensure quality and compliance with audit and security requirements.
- Frequently assumed **leadership responsibilities**, conducting daily stand-ups, code reviews, and knowledge-sharing sessions to foster team alignment, efficiency, and continuous improvement.

Education

Mangosuthu University of Technology

Feb, 2024 - Dec, 2024

ICT - Application Development

Advanced Diploma

Successfully completed an Advanced Diploma in ICT - Application Development with a strong foundation in applications development, computer security, software testing techniques and ICT project management skills. Gained expertise in software engineering, advance databases, and systems analysis, with proficiency in research techniques for systems development. Achieved distinction in multiple courses, showcasing academic excellence and strong problem-solving skills.

Mangosuthu University of Technology

Feb, 2019 - Dec, 2022

Software development

Diploma Information Technology

Successfully completed a Diploma in IT: Software Development with a strong foundation in software development, technical programming, information systems and system software. Gained expertise in developing software, internet programming, and industry exposure.

Achieved distinction in multiple modules, showcasing academic excellence by becoming the top student across faculty.

Python Institute, Cisco, Coursera, GitHub, And IBM

Sep, 2012 - Present

Software Engineering

Online Certificates

- Successfully completed courses and modules primarily from Coursera, featuring partnerships with esteemed institutions and industry leaders (Cisco, Python Institute & IBM) geared towards equipping learners with market-relevant skills in software development, cloud technologies, and more.

Projects

SMME's Virtual Incubation

July 2023

Web Application

Mrs Lungile Mthethwa

<http://virtualincubation.infinityfreeapp.com>

Code SA Institute (PTY)LTD

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Bongeka Ngcongo

Mrs. P Mabaso

Ocule IT

Dambuza Community Development Trust

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Skills

Project Management

Git and Github

ASP.NET MVC



C#

Python

Java

JavaScript

HTML & CSS

React

SQL Server Reporting Services (SSRS)

Angular

SAP Integration (RFCs)

PHP

Node.JS

MySQL

Spring Boot

API

Software Test

AWS

Azure

Agile / SDLC Methodologies

The system automates manual WIL tracking, reduces paperwork, improves communication between students and supervisors, and facilitates better monitoring of student progress in the Environmental Health WIL program. It enhances transparency, accountability, and overall efficiency in managing student practical training placements.

References

Dr Mutanga

Mrs Lungile Mthethwa

Mangosuthu University of Technology

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Skills

Project Management

Git and Github

ASP.NET MVC

C#

Python

Java

JavaScript

HTML & CSS

React

SQL Server Reporting Services (SSRS)

Angular

SAP Integration (RFCs)

PHP

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Agile / SDLC Methodologies

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