



# Siphelele Audacious Maphumulo

Junior Software Developer

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Profiles	<a href="#">Siphelele Maphumulo</a> <a href="#">Siphelele Maphumulo</a> <a href="#">Siphelele Maphumulo</a>		
Summary	<p>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.</p> <p>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.</p>		
Experience	<div><div><b>Mangosuthu University of Technology</b> Programming Tutor (Teachers Assistant) <b>Feb, 2024 - Dec, 2024</b> Durban, South Africa</div><div><ul style="list-style-type: none"><li>Facilitated hands-on tutorials and workshops for first-year students, focusing on <b>Introduction to Programming</b> and problem-solving relevant to real-world software development environments.</li><li>Taught foundational programming in <b>Java, C#, and Python</b>—languages widely used in enterprise and manufacturing systems—covering:<ul style="list-style-type: none"><li>Syntax, data types, and control structures essential for scalable system logic</li><li>Program structure, modular code development, and basic debugging</li><li>Introduction to <b>Object-Oriented Programming (OOP)</b> principles, including classes, methods, encapsulation, and reusability—skills critical for large-scale system development</li></ul></li><li>Guided students in writing efficient, well-structured code to simulate scenarios similar to real-world production and IT support systems.</li><li>Developed practical coding exercises and challenges designed to mirror common tasks in <b>industrial IT environments</b>, such as input/output handling, error trapping, and user interaction.</li><li>Encouraged analytical thinking and best practices in code readability, maintainability, and performance—key qualities for contributing to production-critical systems like those used at <b>Mondi</b>.</li></ul></div></div> <div><div><b>OculeIT (Code SA Institute (PTY) LTD)</b> Software Developer &amp; Technical Supporter (Intern) <b>Jul, 2024 - current</b> Kloof &amp; New Germany, South Africa</div><div><ul style="list-style-type: none"><li>Designed and developed <b>custom, high-performance web and mobile software solutions</b>, tailored to meet both client-specific and institutional needs, with a focus on <b>scalability, accessibility, and UI/UX quality</b>.</li><li>Built and optimized <b>cross-platform mobile applications</b> for iOS and Android using modern frameworks, ensuring fast performance and seamless integration across devices.</li><li>Developed <b>educational and enterprise-grade tools</b> supporting learning in coding, robotics, and AI—showcasing the ability to deliver technically sound, purpose-driven applications in dynamic environments.</li><li>Delivered <b>technical support and infrastructure guidance</b> to trainers and end-users, ensuring uninterrupted operation of digital systems and platforms.</li><li>Assessed business and client requirements, providing <b>strategic IT recommendations</b> to optimize workflow efficiency, system security, and data performance—skills directly relevant to Mondi's production-oriented operations.</li><li>Led the end-to-end development of applications using a full-stack toolkit:<ul style="list-style-type: none"><li><b>Front-end:</b> HTML, CSS, JavaScript, React, Angular, Vue</li><li><b>Back-end:</b> Node.js, Java, Python, PHP</li><li><b>Databases:</b> MySQL, PostgreSQL (on-prem and cloud-based), with regular backup, access control, and tuning</li></ul></li><li>Applied <b>Agile methodologies</b> across development cycles, performing both <b>manual and automated software testing</b> to ensure quality and compliance with audit and security requirements.</li><li>Frequently assumed <b>leadership responsibilities</b>, conducting daily stand-ups, code reviews, and knowledge-sharing sessions to foster team alignment, efficiency, and continuous improvement.</li></ul></div></div>		
Education	<div><div><b>Mangosuthu University of Technology</b> ICT - Application Development <b>Feb, 2024 - Dec, 2024</b> Advanced Diploma</div><div>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.</div></div> <div><div><b>Mangosuthu University of Technology</b> Software development <b>Feb, 2019 - Dec, 2022</b> Diploma Information Technology</div><div>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.</div></div> <div><div><b>Python Institute, Cisco, Coursera, GitHub, And IBM</b> Software Engineering <b>Sep, 2012 - Present</b> Online Certificates</div><div><ul style="list-style-type: none"><li>Successfully completed courses and modules primarily from Coursera, featuring partnerships with esteemed institutions and industry leaders (Cisco, Python Institute &amp; IBM) geared towards equipping learners with market-relevant skills in software development, cloud technologies, and more.</li></ul></div></div>		
Projects	<div><div><b>SMME's Virtual Incubation</b> Web Application <b>July 2023</b>  <a href="http://virtualincubation.infinityfreeapp.com">http://virtualincubation.infinityfreeapp.com</a></div><div>During my internship at Code SA Institute, I made a web app to help young entrepreneurs and startups build their brands and formalize their businesses. The app allows users to register their companies, fill out CIPC forms, apply for funding, and get advice from business experts. I worked with organizations like CIPC, BizPortal, Business Doctors, <a href="#">Khula.com</a>, Durban Innovations, Eskom Science, and the Department of Labour to make sure the platform was useful and met industry standards.</div><div>HTML &amp; CSS, PHP, JavaScript, MySQL, Google Workspace</div></div> <div><div><b>Umlazi Discount Hardware</b> Mobile Application <b>2016</b>  <a href="https://siphelele-maphumulo.github.io/Hardware/">https://siphelele-maphumulo.github.io/Hardware/</a></div><div>I developed this app in my second year at Durban University of Technology, starting with PHP. In 2020, I changed it into a mobile app that works on both Android and iOS. I made the app for a new hardware store and offered it to the business as a custom solution. The store still uses the app today. I collaborated with different people, including staff, owners, and customers, to test and improve the app so shopping would be easy and smooth.</div><div>Angular, Ionic, Typescript, Firebase, GitHub</div></div> <div><div><b>Online Testing Web Application</b> Web Application <b>2023</b>  <a href="https://online-test-web-application-7mu3.onrender.com">https://online-test-web-application-7mu3.onrender.com</a></div><div>I made this online testing website as a school project. After completing the basic functionalities from my lecture, I added more features to get more users involved. Now, teachers can create tests and quizzes for students to take online. I also donated this project to many rural schools that don't have good computers or internet. I installed NetBeans and MySQL on local computers so teachers can set tests and save student scores offline.</div><div>HTML, CSS, MySQL, JSP, Java, Tomcat</div></div> <div><div><b>MUT Environmental Health Faculty</b> WIL System <b>July 2024 - July 2025</b>  <a href="https://environmental-health-wil-frontend.netlify.app/">https://environmental-health-wil-frontend.netlify.app/</a></div><div>he MUT Environmental Health WIL (Work Integrated Learning) System is a web-based application designed to streamline the management of WIL activities for Environmental Health students at the Mangosuthu University of Technology (MUT). The system supports students, supervisors, and administrators by digitizing and organizing key WIL processes such as applications, log sheets, reflections, and supervisor evaluations.</div><div><b>Key Features:</b><ul style="list-style-type: none"><li><b>Student Application Module:</b> Allows students to submit WIL placement preferences, personal information, and upload required documents such as ID, CV, and signatures.</li><li><b>Log Sheet Management:</b> Enables students to enter daily WIL activities with detailed descriptions, situations, evaluations, and interpretations, along with supervisor and student signatures for verification.</li><li><b>Supervisor Dashboard:</b> Supervisors can review and approve student submissions, track progress, and provide feedback.</li><li><b>Authentication and Authorization:</b> Role-based access control for students, supervisors, and administrators ensures secure access to relevant features.</li><li><b>Responsive Design:</b> User-friendly interfaces designed to work across devices.</li><li><b>Integration with Database:</b> Utilizes MySQL (phpMyAdmin) backend to store and manage data efficiently.</li><li><b>Backend API:</b> Developed with Node.js/Express or Spring Boot (depending on implementation) to handle business logic and communication between frontend and database.</li></ul></div><div><b>Technologies Used:</b><ul style="list-style-type: none"><li>Frontend: Angular framework for a dynamic and reactive UI.</li><li>Backend: Spring Boot (Java) or Node.js for RESTful APIs.</li><li>Database: MySQL for persistent storage.</li><li>Additional Tools: Authentication with JWT, file uploads for signatures and documents, and session management.</li></ul></div><div><b>Purpose &amp; Impact:</b><p>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.</p></div></div>		
References	<div><div><b>Dr Mutanga</b> Mangosuthu University of Technology <a href="mailto:mutangamb@mut.ac.za.com">mutangamb@mut.ac.za.com</a></div><div><b>Mrs Lungile Mthethwa</b> Code SA Institute (PTY)LTD <a href="mailto:info@codingmadeeasy.org">info@codingmadeeasy.org</a></div></div> <div><div><b>Bongeka Ngcongo</b> Ocule IT <a href="mailto:bongeka.ngcongo@oculeit.com">bongeka.ngcongo@oculeit.com</a></div><div><b>Mrs. P Mabaso</b> Dambuza Community Development Trust <a href="mailto:mabasop@dyds.org.za">mabasop@dyds.org.za</a></div></div>		
Skills	<div><b>Project Management</b> ●●●●●</div> <div><b>C#</b> ●●●●○</div> <div><b>JavaScript</b> ●●●●○</div> <div><b>SQL Server Reporting Services (SSRS)</b> ●●●●○</div> <div><b>PHP</b> ●●●●○</div> <div><b>Spring Boot</b> ●○○○</div> <div><b>AWS</b> ●○○○</div>	<div><b>Git and Github</b> ●●●●●</div> <div><b>Python</b> ●●●○</div> <div><b>HTML &amp; CSS</b> ●●●●●</div> <div><b>Angular</b> ●●●●○</div> <div><b>Node.JS</b> ●●●●○</div> <div><b>API</b> ●○○○</div> <div><b>Azure</b> ●○○○</div>	<div><b>ASP.NET MVC</b> ●●●●○</div> <div><b>Java</b> ●●●●○</div> <div><b>React</b> ●●●●○</div> <div><b>SAP Integration (RFCs)</b> ●●●●○</div> <div><b>MySQL</b> ●●●●○</div> <div><b>Software Test</b> ●●●●○</div> <div><b>Agile / SDLC Methodologies</b> ●●●●○</div>