Mr. Siphelele Audacious Maphumulo

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Portfolio: https://maphumulo-portfolio.netlify.app/
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Professional Summary

I'm a dedicated Software Developer and Facilitator with 3 years' experience in full-stack development and technical support. I work with C#, .NET, Java, PHP, Python, React, Angular, and SQL. I've built scalable systems, resolved software, hardware and network issues, provided user support, and handled troubleshooting across different platforms. I've also trained and mentored learners in coding, technical support and basic cybersecurity. I hold an Advanced Diploma in ICT – Application Development, a Diploma in ICT – Information Technology, and I'm a certified Cisco Instructor, Facilitator, and University Tutor.

Professional Experience

Senior Software Developer & Technical Supporter

OCULEIT (CODE SA INSTITUTE) — Kloof and New Germany, Pinetown
July 2022 – Current

- Designed and developed scalable websites and web applications for startups and educational institutions using JavaScript (React, Angular, Node.js), Python, Java, and C#. Worked in development environments like Visual Studio, VS Code, IntelliJ, PyCharm and Eclipse. Used Docker for containerization, GitHub Actions for CI/CD, and deployed projects on AWS, Firebase, GoDaddy, and WordPress.
- Delivered full-spectrum technical support and system maintenance for digital laboratories. My responsibilities include hardware setup, software installation, network configuration, user support, troubleshooting, and regular updates. Used remote desktop tools (TeamViewer, AnyDesk), ticketing systems (Freshdesk, Zendesk), and monitoring tools (Nagios, Zabbix) to manage and resolve issues efficiently. Collaborated with the Department of Labour to design, secure, and optimize IT infrastructure, ensuring data protection, compliance, and a 30% improvement in system performance.
- Applied Agile methodologies throughout the development lifecycle, performing both manual and automated testing, and delivering cross-product integrations aligned with client requirements.
- Led technical workshops on Git version control, collaborative development, and best practices, while frequently assuming leadership roles in daily stand-ups, code reviews, and knowledge-sharing sessions to drive team efficiency and continuous improvement.
- I actively participated in Code SA exhibitions, visiting rural and local schools to expose learners to digital opportunities, providing awareness and free access to online programming certificates such as Introduction to Programming (Python), JavaScript Essentials, Introduction to Cybersecurity, and IT Essentials to inspire careers in technology.

Programming Teachers Assistance

MANGOSUTHU UNIVERSITY OF TECHNOLOGY – Durban, South Africa
Feb 2024 - Dec 2024
- Delivered interactive workshops and tutorials on Java, C#, and Python, enhancing students' skills in object-oriented programming, debugging, and scalable logic design.
- Developed coding challenges that simulated real-world enterprise systems, with a focus on efficiency, maintainability, and performance optimization.
- Mentored students in analytical thinking and clean code practices, equipping them with the skills required for professional software engineering roles.
- Improved the first-year programming pass rate by 75% since taking on the tutor role, contributing to higher student engagement and overall academic success.

Programming Facilitator

SINOLWAZI TRAINING AND PROJECTS (PTY) LTD – Durban Central
Feb 2023 - Dec 2023
- Facilitated MICSETA Unit Standard 14910: Apply the Principles of Computer Programming (NQF Level 4, 8 Credits), covering editor usage, syntax checking, number conversions, logical operators, algorithmic structures, and debugging techniques.
- Applied Outcomes-Based Education (OBE), integrating both formative (continuous) and summative (final) assessments to holistically develop learners' technical and life skills.
- Trained learners on practical programming tools and techniques, including development environments (IDEs), syntax validation, debugging strategies, and quality assurance practices.
- Guided learners in completing knowledge-based assessments that tested theoretical understanding of programming fundamentals, logic design, and information systems for Total Quality Management (TQM).
- Led cybersecurity awareness sessions covering safe internet usage, phishing prevention, password security, and endpoint protection as part of the training program.
- Participated in Code SA exhibitions, visiting rural and local schools to provide exposure to online certifications such as Introduction to Programming (Python), JavaScript Essentials, Introduction to Cybersecurity, and IT Essentials, inspiring future careers in technology.
- Mentored students in analytical thinking, clean code practices, and problem-solving, equipping them with professional software engineering skills.
- Improved the first-year programming pass rate by 70%, driving higher student engagement and academic success.

Junior Software Developer (Learnership)

DAMBUZA COMMUNITY DEVELOPMENT TRUST - Pietermaritzburg
Jun 2024 - Dec 2024
- Designed and delivered responsive web and mobile applications using PHP, HTML, JavaScript, CSS and MySQL, translating client requirements into functional solutions. Participated in Agile sprints, performing code reviews, debugging, and security testing to ensure quality and compliance. Produced detailed technical documentation with reports and provided ongoing post-deployment support and team management.
- Applied hands-on experience with deployment and orchestration tools, including AWS CloudFormation, Terraform, Docker, and Kubernetes, to manage and optimize production environments.
- Built foundational knowledge in microservices and distributed systems architecture, supported by AWS Developer and Engineer certifications and practical cloud implementation experience.

Education

Degree / Advanced Diploma in ICT - Application Development

MANGOSUTHU UNIVERSITY OF TECHNOLOGY | *2024*

Graduated with distinctions; focused on software engineering, advanced databases, computer security, system testing and ICT project management.

Diploma in Information Technology - Software Development

MANGOSUTHU UNIVERSITY OF TECHNOLOGY | *2019 – 2022*

Top-performing student in faculty (cum-laude). Gained expertise in Networking, software design, hardware design, programming, database design and systems integration.

Projects

CodeSA Website [https://codingmadeeasy.org/]

- I created and launched the official **Code SA website** using **WordPress** and **GoDaddy**, designed as a static website to showcase the company's programs and services.
- The site includes a **contact page** with Google Maps integration, a **subscription feature** for updates, a **FAQ section**, and a **secure registration form** where clients can enter details, select programs, and upload documents such as CVs and IDs.
- The registration system is **protected by Google reCAPTCHA**, ensuring safe and accurate processing of client information.
- The website highlights Code SA's value through sections such as **Why Choose Us, Our Services, and Certified Partners**, covering areas like professional certifications, boot camps, teacher development, and partnerships with **Microsoft, CompTIA, Cisco, and the Python Institute**.
- This project demonstrates my ability to **design and deploy client-facing websites**, integrate secure registration systems, and showcase programs and partnerships in a professional and accessible way.

MUT WIL Management System [https://environmental-health-wil-frontend.netlify.app/]

- I was proud to be part of a team that built a web app for Mangosuthu University to help track Environmental Health students' placements and daily logs.
- We collaborated with MUT's Faculty of Science, the Department of Health Professions Council of South Africa, and various municipalities to create the first-ever web solution that streamlines and simplifies the process of checking and signing daily log sheets for environmental health students nationwide.
- We used tools like Angular, Spring Boot, MySQL, and Firebase. The app lets students log their work and lets staff and municipalities check and sign off easily online.
- This project solved a real problem, and it is currently used by Mangosuthu University and endorsed by other universities across South Africa, the application has significantly reduced human errors by 90%, saved substantial time and costs, and improved the fairness and completeness of work-integrated learning placements for learners by 99%.

SMME Virtual Incubation Platform [http://virtualincubation.infinityfreeapp.com/]

- During my internship at Code SA Institute, I joined a team that built a virtual incubation website to support small businesses and entrepreneurs.
- I worked closely with senior developers to design and develop the platform. Later, I improved the system and became the main developer and maintainer.
- This platform assists startup businesses and entrepreneurs to smoothly access CIPC registration, funding, and mentorship tools all in one place.
- In 2023, I proudly presented and launched the website at E-Langeni Hotel in Durban to stakeholders and the Department of Labour. It was approved and helped Code SA earn R150,000 to improve and fully deploy the platform.
- We started with WordPress, but later rebuilt the system using PHP, JavaScript, HTML/CSS, and MySQL for better performance and flexibility.

Technical Skills

- Languages: Java, Python, C#, PHP, JavaScript
- Frameworks: Spring Boot, Node.js, Django, Angular, React, Vue
- Databases: MySQL, PostgreSQL
- Tools: Git, NetBeans, Visual Studio Code, Docker, Kubernetes
- Cloud & Hosting: Firebase, AWS (basic), Azure (basic), Google Cloud
- Practices: Agile, Scrum, Unit Testing, Manual & Automated QA, API Development
- Graphic Design – Adobe Photoshop, Illustrator, Figma, Canva

Soft Skills

- Problem-Solving & Critical Thinking
- Collaboration, Leadership & Team management
- Communication (Verbal & Written) & Emotional intelligence
- Decision making & Strategic Thinking
- Presentation Skills

Certification & Awards

- Agile Manual and Automation testing – Tech Canvas
- End-user computing programme – MICSETA
- Introduction to Software Engineering – Coursera (IBM)
- Certified Entry Level Python programmer – Python Institute
- AWS fundamental - Coursera (AWS)

References

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