Mlandvo Melusi Nkosi

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PROFESSIONAL SUMMARY

Software Developer with hands-on experience in full-stack development, system architecture, and code optimization. Skilled in translating business requirements into scalable applications, improving performance, and deploying secure, reliable solutions. Holds expertise in languages like Python, JavaScript, and Java and applies strong problem-solving and Agile development skills to deliver high-quality software products..

WORK EXPERIENCE

Forge Academy & Labs   **Randburg, Gauteng**
Software Developer Intern   *Jan 2025 - Present*

- Secured CySA+ Statement of Completion, demonstrating a solid understanding of core cybersecurity principles and best practices
- Obtained AWS Cloud Practitioner certification, strengthening cloud architecture and resource management capabilities
- Revitalized the holding company's website using the MERN stack, leading to a modern and more effective online presence that increased user engagement by approximately 25%.
- Initiated and I am currently leading a small team in the development of a transformative web application featuring real-time data tracking and single sign-on, anticipated to significantly enhance internal communications efficiency by an estimated 20%.
- Streamlined and modernized the clock-in system by effectively integrating available technologies, resulting in a 10% reduction in manual processing time and improved data accuracy.
- Managed and maintained version control (Git) and CI/CD pipelines for multiple development environments, ensuring rapid, error-free code deployment and reducing manual release time by 2 hours per sprint.
- Explored and implemented proof-of-concept solutions using Prompt Engineering techniques to enhance data processing or content generation features within a peer-to-peer system, setting the stage for future AI integration.
- Collaborated cross-functionally with product managers and UX/UI designers to translate complex requirements into technical specifications, ensuring timely delivery of 2 months within budget.

Bon Connect PTY LTD   **Johannesburg, Gauteng**
Software Developer Intern   *Apr 2022 - Dec 2024*

- Engineered and deployed a scalable web application using React and Node.js/Express, successfully handling over 50 daily users and improving application load speed by 10%.
- Designed and implemented robust RESTful APIs for ACD, standardizing data exchange protocols and facilitating seamless integration between the front-end and multiple internal services.
- Developed and deployed scalable network infrastructures across various topologies, optimizing connectivity and supporting 50 concurrent users or operations.
- RRefactored critical legacy code sections in clock-in system using modern JavaScript standards (ES6+), resulting in a 50% reduction in reported bugs and improving overall maintainability
- Optimized application deployment environments by analyzing and configuring underlying networking protocols and server components, directly improving application throughput and reliability under peak load.
- Spearheaded hardware procurement and optimization strategies for high-performance computing clusters/workstations, reducing operational latency by 25% and maximizing resource utilization for development testing.
- Authored detailed technical documentation and troubleshooting guides for application deployment and infrastructure configuration, standardizing handover processes for the operations team.

EDUCATION

Tshwane University Of Technology   **Polokwane, Limpopo**
National Diploma: Information Technology (Software Development)   *Graduation Date: Jan 2022*

Ngilandi Senior Secondary School   **Steynsdorp, Mpumalanga**

TECH SKILLS

Programming: JavaScript, Python, Java, C#, C++, Node.js, HTML/CSS, bash

Database: MySQL, MongoDB, PostgreSQL, Firebase, SQL Server

Tools/Platform: GitHub, Docker, AWS, Jenkins, Visual Studio Code,Android Studio, Virtualbox

Framework: React, Vue.js, Express, Django

REFERENCES

- Mr Ali Mohammed (Forge Senior Software Developer) +27 81 049 5640
- Mr P. Mothopeng (Bon Connect CEO) +27840544733
- Miss P.K Mvula (Ekulindeni Admin) +27 71 416 7359
- Mr F. Msibi (Groot Boom Admin) +27 79 999 1515