Zanethemba Ngwenya

Software Developer

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SUMMARY

Creative and analytical software developer skilled in Python, Java, and distributed systems, with experience in cloud platforms like Azure and relational databases. Proficient in agile methodologies and delivering scalable, high-quality solutions while simplifying complex concepts for stakeholders. Seeking an innovative role to apply fresh perspectives and drive sustainable growth.

EDUCATION

Systems Development(NQF 5)   09/2023 – 12/2024
WeThinkCode   Johannessburg,
Full Stack Software Engineering Program   South Africa
- Gained proficiency in Python, Java, and JavaScript through hands-on projects.
- Acquired practical experience in software development methodologies, agile practices, and version control with Git.
- Developed real-world projects and industry best practices for a versatile career in software engineering.

TECHNICAL SKILLS

Programming Languages: Java, Python, JavaScript, HTML, CSS

Testing: Unit testing, Acceptance testing, Integration testing

Development & Collaboration Tools: Apache Maven, JUnit, Git, GitHub Actions, Docker, Trello, Miro

Databases: SQL (MySQL, PostgreSQL), MongoDB (NoSQL)

API Design: RESTful APIs, JSON

DevOps: CI/CD pipelines, Jenkins, Docker

HANDS ON EXPERIENCE

Coding Clinic Booking System
- Developed an end-to-end console-based system for managing Code Clinics at WeThinkCode, improving efficiency by 30%.
- Integrated the Google Calendar API for student and volunteer scheduling, increasing volunteer participation by 25%.
- Focused on Linux command-line operations, modularization, and test-driven development (TDD).

RobotWorlds Network-Based Game
- Designed and implemented a socket-based multiplayer robot combat game with real-time gameplay and 80% user engagement.
- Applied Java socket programming with a multi-threaded server, achieving latency under 100ms.
- Used OOP principles for modular design, enhancing flexibility and user experience.

SOFT SKILLS

- Strong problem-solving and analytical thinking
- Communication & Presentation
- Teamwork & Collaboration
- Time Management & Organization

ACHIEVEMENTS

Bxrdeless Hackathon winner   31/08/2024
- Led backend design for a geospatial flood-monitoring tool, integrating RESTful APIs and achieving timely alerts for communities.
- Delivered measurable results in all projects, including 30% productivity boosts and reduced deployment times by 50%.