

SYLVIA NKOSI

Information Systems Graduate | Software Engineering Student | Johannesburg, South Africa

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TECHNICAL PROFILE

I am a high-achieving BCom Information Systems graduate and current Software Engineering student at WeThinkCode_. AWS Certified Cloud Practitioner with a focus on building secure, transactional backend systems. Experienced in maintaining high-availability enterprise systems (99.9% uptime) at Altron. Expert at bridging the gap between complex business requirements and clean, scalable code.

CORE COMPETENCIES

Primary Technical Stack: Java (Spring Boot, Hibernate), Python, SQL (MS SQL).

Engineering Frameworks: RESTful API Design, Spring Data JPA, **Object-Oriented Programming (OOP)**, and CRUD Architecture.

DevOps & Infrastructure: AWS Certified Cloud Practitioner, Git/Version Control (Branching/Merging), Linux CLI, and Maven.

High-Performance Delivery: Agile Methodology (Scrum), Test-Driven Development (TDD), JUnit, and Peer-to-Peer Code Reviews.

Analytical Execution: Systems Analysis, Transactional Logic (Atomic Operations), Root Cause Analysis, and Data Integrity.

TECHNICAL PROJECTS

[IN DEVELOPMENT] LaborLink: Micro-Gig Marketplace Java Spring Boot | MSSQL | Spring Security | Thymeleaf
Personal project

Architecture: Designing a peer-to-peer marketplace connecting individual service providers with short-term employers.

Financial Engine: Architecting a digital wallet system where employers purchase platform credits to "rent" workers.

Transactional Integrity: Implementing atomic transactions to ensure secure credit deduction and escrowing until service completion.

Rating System: Developing a relational schema for a post-service peer-review and reputation engine.

Python Coding Clinic Booking System Python | Google Calendar API | JSON | Miro
WeThinkCode_ python Major Project

Project Lead: Managed 5 weekly Agile iterations to deliver a CLI-based booking tool for 500+ students.

API Integration: Facilitated secure OAuth2 synchronization between local data and Google Calendar APIs.

Persistence: Built a robust local storage solution using JSON to ensure offline availability of schedules.

Cloud-Integrated Student Management System Java Spring Boot | MS SQL | AWS RDS Personal Project

Built a full CRUD application focusing on secure data persistence and cloud-based hosting.

Cloud Infrastructure: Configured and managed an **AWS RDS** instance for remote database access.

PROFESSIONAL EXPERIENCE

Systems Support & Operations | Altron Digital Business *October 2023 – May 2025*

System Resilience: Guaranteed **99.9% operational continuity** for mission-critical Billing and Network Provisioning systems.

Technical Troubleshooting: Resolved hundreds of daily system errors and thousands of bi-weekly discrepancies, identifying root causes in failed transactions.

Stakeholder Liaison: Acted as the technical bridge between operations and engineering teams to resolve inhibited system dependencies.

EDUCATION

Software Engineering Diploma | WeThinkCode_ *September 2025 – Present (Expected Dec 2026)*

Focused on Advanced Software Architecture, Algorithms, and Peer-to-Peer Learning.

Bachelor of Commerce: Information Systems & Technology | UKZN *Completed: December 2019*

Awards: Golden Key International Honour Society; **Certificate of Merit** in Cloud Computing.

Focus: IT Audit, Systems Analysis, and Database Management, Systems Development

CERTIFICATIONS

AWS Certified Cloud Practitioner (2024)