THOBEKA THOBILE BUSISIWE NKOSI

SOFTWARE ENGINEERING | JAVA & BACKEND DEVELOPMENT | FULL-STACK APPLICATIONS

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PROFESSIONAL SUMMARY

Software Engineering student at WeThinkCode_ (NQF 6; completing December 2026) and BSc Life Sciences graduate. Hands-on experience with Java, Python, object-oriented programming, concurrent client-server applications, REST APIs, relational databases and automated testing. Builds end-to-end applications and works collaboratively to solve problems, debug issues and deliver reliable, user-focused solutions.

TECHNICAL SKILLS

Languages: Java 17 & 21, Python, SQL, TypeScript, JavaScript, Bash

Software engineering: SDLC (requirements, design, development, testing, deployment and maintenance), OOP, Agile practices, debugging, unit and integration testing

Backend & integration: Java Sockets, multithreading, JUnit 5, Maven, REST APIs, microservices, Jackson/JSON, Apache ActiveMQ (JMS)

Web, databases & tools: React, FastAPI, Flask, PostgreSQL, Git, GitHub Actions, CI/CD, Docker, Linux, Kubernetes

Data & pipelines: ETL/ELT, pandas, dbt, Apache Airflow, DuckDB, PyArrow/Parquet, data quality

PROFESSIONAL & INTERPERSONAL SKILLS

Written and verbal communication, presentations, teamwork and collaboration, analytical thinking, problem-solving, adaptability, accountability, attention to detail, time management, continuous learning and peer mentoring.

EDUCATION

WeThinkCode_ | Occupational Certificate in Software Engineering (NQF 6) Sep 2025 – Dec 2026 (expected)

Core: Java OOP, distributed applications, testing and CI/CD. Data Engineering elective: Python pipelines, SQL, data validation and analytics.

Sefako Makgatho Health Sciences University | BSc Life Sciences (NQF 7) Completed 2025

Majors: Biochemistry and Physiology; scientific research, analysis and evidence-based problem-solving.

Midlands Community College | National Senior Certificate (Upgraded Matric) Completed 2019

Phendukani Full Service High School | National Senior Certificate (Matric) Completed 2018

SELECTED TECHNICAL PROJECTS

Robot World | Concurrent Multiplayer Java Application | GitHub

Java 21 • Java Sockets • Multithreading • Maven • JUnit 5 • Jackson

- Co-developed a multiplayer Java simulation using socket-based client-server messaging and JSON commands.
- Implemented multithreaded server operations to support simultaneous client connections and shared-world interactions.

SELECTED TECHNICAL PROJECTS (CONTINUED)

HealthSafe | Java Microservices & Messaging | GitHub

Java • REST APIs • Apache ActiveMQ/JMS • Docker • Kubernetes

- Contributed to a hospital operations system integrating Java services for ward management, staffing and equipment alerts.
- Connected services through REST and asynchronous messaging, processed legacy CSV data and supported containerized execution.

AirAtlas | Deployed Environmental Data Platform | GitHub · Live App

Python • PostgreSQL • Apache Airflow • dbt • pandas

- Built an air-quality data pipeline with API ingestion, validation, deduplication, weather enrichment and data storage.
- Developed tested dbt models, orchestrated workflows with Airflow and deployed an interactive dashboard.

BeyondPink | Brea | Inclusive Health-Education Web Experience | GitHub · Live App

React • TypeScript • Leaflet • AI assistant • Accessibility

- Created a responsive breast-health learning experience with educational content in five South African languages.
- Built guided learning features, an interactive care-directory map and an AI educational assistant with optional voice controls.

EXPERIENCE & LEADERSHIP

IDC Digital Inclusion Facilitator **WeThinkCode_** Nov 2026 – Present

Support learner preparation through supervised technical practice and review of Python and Java exercises.

IDC Work Readiness Facilitator | WeThinkCode_ Oct 2025 – Jun 2026

Facilitated work-readiness activities and supported learners with workplace communication, interviews, CVs and presentations.

Administrative Assistant (part-time) | Dr SS Nkosi Dental Surgery Jun – Dec 2020

Managed patient scheduling, records, data entry, billing and daily clinic administration.

CERTIFICATIONS & RECOGNITION

Certifications: Kubernetes and Cloud Native Associate (KCNA), The Linux Foundation (2026); Kubernetes and Cloud Native Essentials (2026); Scientific Computing with Python, freeCodeCamp (2025); GenAI course for Software Engineers (2025); GenAI course for Professionals (2026); IDC Digital Inclusion and Work Readiness (2026);

Recognition: 3rd Place, Monkey & River x Momentum Hackathon (2026); 3rd Place, Cisco x WeThinkCode_ Hackathon (2026).