

Thulisile Vilakazi

Software Engineering Diploma Student | Aspiring Graduate Developer
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Profile

Software Engineering Diploma student at WeThinkCode_ with a background in Law from the University of Cape Town. Passionate about coding, collaboration, and problem-solving, with hands-on experience in Java, Python, SQL, and Linux/Unix systems. Skilled in algorithms, object-oriented programming, debugging, and Agile teamwork through collaborative projects. Adaptable and eager to grow by learning new technologies, with a strong interest in backend development, APIs, and scalable systems. I bring resilience, communication skills, and a unique perspective from transitioning into technology, and I am motivated to contribute to innovative solutions that make a real impact.

Technical Skills

Programming Languages: Java, Python, SQL, HTML/CSS, Bash
Core Skills: Algorithms, Data Structures, OOP, Debugging, Problem-Solving
Tools: Git, GitHub, Maven, Docker
Systems: Linux/Unix (command line, shell scripting, system navigation, package management)
Databases: SQLite, PostgreSQL
Practices: Agile Scrum teamwork, Test-Driven Development (TDD), CI/CD, API Development
Exposure: Cloud basics (AWS concepts), Cybersecurity, AI fluency

Key Projects

Brownfields Robot Worlds — Java Client-Server Distributed System 2024–2025

- Built a distributed robot control system applying OOP, networking, and persistence.
- Debugged and tested with JUnit; automated builds with Maven and containerized with Docker.
- Worked in a Scrum-like team environment, simulating industry-level software delivery.

Bus Schedule App — Python Backend 2024

- Converted PDF transport timetables into structured CSV format and developed query functionality.
- Strengthened planning, maintainability, and problem-solving in a real-world scenario.

Legal Education App — Python/Django Ongoing

- Designing REST APIs and PostgreSQL schema for a legal education platform.
- Focused on usability, security, and information accessibility.

Education

WeThinkCode_ 2023–2025 (in progress)
Diploma in Software Engineering (NQF 6 Equivalent) *Key Focus:* Java, Python, SQL, Git, Docker, Linux/Unix, Agile teamwork, test-driven development.

University of Cape Town (UCT) 2018–2022
Background in Law *Key Focus:* Research, critical analysis, structured decision-making, communication.

Professional Experience

Front Desk Administrator & Student Recruiter — WeThinkCode_ 2024–Present

- Represented organisation at recruitment events, engaging prospective students.
- Coordinated onboarding logistics and resolved student/visitor queries.
- Strengthened adaptability, communication, and stakeholder engagement.

Front Desk Coordinator — University of Cape Town 2021–2022

- Managed high-volume student services and streamlined scheduling/documentation.

Call Centre Agent — Ikapadata 2020

- Conducted surveys and captured data with accuracy and confidentiality.
Promoter — Various Brands 2019–2020
- Represented brands in public campaigns and strengthened interpersonal skills.
Transcriber — Keller Williams Realty 2019
- Produced accurate transcriptions with attention to detail and confidentiality.

Certifications

SANCS25 — Southern Africa–Netherlands Cyber Security School (2025)

Microsoft AI Fluency (2024)

Google Foundations of Cybersecurity, NEMISA (2024)

LinkedIn Learning: Administration, Microsoft, Data Entry (2023)

Strengths

- Experience with Linux/Unix systems: command line, shell scripting, system navigation, package management.
- Strong debugging and problem-solving ability.
- Quick learner, adaptable to new tools and programming languages.
- Collaborative team player with experience in Agile environments.
- Multilingual: English, Afrikaans, isiZulu, isiSwati, Sotho.