TSHEPO MANQOBA VILAKAZI

ICT Graduate | Software Developer | Data Analyst | Network & Cybersecurity Enthusiast | IT Support

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PROFESSIONAL SUMMARY

Versatile and motivated ICT graduate from the University of Mpumalanga with a broad, well-rounded skill set spanning software development, data analytics, communication networks, cybersecurity, and IT support. Experienced in building full-stack web and mobile applications, conducting data analysis, simulating enterprise networks, and applying foundational cybersecurity concepts using Kali Linux tools. Adept at working in team environments, solving complex technical problems, and communicating effectively across technical and non-technical audiences. Open to entry-level opportunities across the full spectrum of ICT — including software development, data analysis, network administration, cybersecurity, and IT helpdesk roles.

EDUCATION

Bachelor of Science: Information & Communication Technology

University of Mpumalanga | *2022 – 2025*

- Modules: Software Engineering, Data Structures & Algorithms, Database Management, Web & Mobile Development, Communication Networks, Data Analytics, Cybersecurity Fundamentals, IT Support & Systems Administration
- Completed multiple real-world projects covering full-stack development, data analysis, network simulation, and security testing
- Consistent academic engagement with hands-on lab work across all major ICT disciplines

National Senior Certificate

Magotshwa Secondary School | *2022*

TECHNICAL SKILLS

Programming Languages

Java / Jakarta EE	Python	Kotlin	JavaScript	HTML5 / CSS

Web & Mobile Development

React JS	Jetpack Compose	REST APIs	Responsive Design	Git / GitHub

Data Analytics & Visualisation

Pandas	NumPy	Tableau	Power BI	Statistical Analysis

Databases

MySQL	PostgreSQL	Firebase	SQLite	SQL

Networking

TCP/IP | DNS | HTTP	Cisco Packet Tracer	Python Networking	Network Analysis	Subnetting

Cybersecurity

Kali Linux	Nmap	Wireshark	Vulnerability Assessment	Ethical Hacking Basics

IT Support

Hardware Troubleshooting	OS Installation & Config	User Support	System Maintenance	Ticketing Concepts

ACADEMIC & PERSONAL PROJECTS

Software Development

Outfit AI — Weather-Aware Smart Outfit Recommender

Team Project | *2024*

Tech: HTML, CSS, JavaScript, Java (Jakarta EE), Firebase, Weather API

- Co-developed a full-stack web application that integrates a live Weather API to fetch real-time conditions and recommend suitable outfits to users
- Implemented a wardrobe upload feature enabling users to photograph and upload clothing items for personalised AI-driven outfit suggestions
- Built backend logic using Java (Jakarta EE) servlets for API communication, image handling, and business rules
- Used Firebase for real-time cloud storage of user wardrobe data and session persistence
- Collaborated in a team using version control (Git) with responsibility for both frontend UI and backend integration

Android Mobile Application

Academic Project — University of Mpumalanga | *2023*

Tech: Kotlin, Jetpack Compose, SQLite

- Developed a native Android utility app using Kotlin and Jetpack Compose following MVVM architecture
- Integrated SQLite for offline-first local data persistence and designed a clean, responsive UI
- Tested across multiple device configurations and iterated on UI based on usability observations

Database-Driven Web Application

Academic Project — University of Mpumalanga | *2023*

Tech: HTML5, CSS, JavaScript, Java (Jakarta EE), MySQL

- Designed a normalised relational schema in MySQL and built a dynamic web frontend with Java servlet backend
- Wrote complex SQL queries (joins, aggregations, subqueries) and applied Python (Pandas) to extract usage analytics

Data Analytics

Exploratory Data Analysis Project

Academic Project — University of Mpumalanga | *2024*

Tech: Python, Pandas, NumPy, Tableau, Power BI

- Collected, cleaned, and transformed structured datasets using Python (Pandas & NumPy) to ensure analysis-ready data quality
- Performed exploratory data analysis to uncover trends, outliers, and statistical patterns across the dataset
- Built interactive dashboards in Tableau and Power BI to communicate key insights visually to a non-technical audience
- Produced a structured analytical report documenting methodology, findings, and data-backed recommendations

Communication Networking

Enterprise Network Design & Simulation

Academic Project — University of Mpumalanga | *2024*

Tech: Cisco Packet Tracer, TCP/IP, DNS, Python Networking

- Designed and simulated a multi-node enterprise network topology using Cisco Packet Tracer with multiple VLANs and subnets
- Configured and tested TCP/IP, DNS, DHCP, and HTTP routing across interconnected network segments
- Wrote Python scripts to automate network packet analysis and monitor traffic flows
- Documented full network topology, configuration decisions, and performance analysis in a technical report

Cybersecurity

Network Vulnerability Assessment (Lab)

Academic Lab — University of Mpumalanga | *2024*

Tech: Kali Linux, Nmap, Wireshark, Metasploit (basic)

- Conducted a controlled lab-based vulnerability assessment of a simulated network environment using Kali Linux
- Used Nmap for port scanning and host discovery to identify open services and potential attack surfaces

- Captured and analysed network traffic with Wireshark to identify unencrypted data transmission and protocol anomalies
- Produced a security findings report with risk classification and recommended mitigations for each identified vulnerability

IT Support & Helpdesk

IT Helpdesk Simulation & Systems Administration (Lab)
Academic Lab — University of Mpumalanga | *2023–2024*
Tech: Windows OS, Linux, Hardware Diagnostics, Ticketing Concepts

- Completed lab-based exercises in OS installation, configuration, and troubleshooting across Windows and Linux environments
- Practised diagnosing and resolving common hardware and software issues including driver conflicts, network connectivity failures, and system performance problems
- Applied IT helpdesk principles including issue triage, escalation procedures, and end-user communication best practices
- Gained familiarity with ticketing system workflows and SLA-driven support processes through simulated scenarios

PROFESSIONAL COMPETENCIES

- Problem Solving & Critical Thinking
- Team Collaboration & Agile Teamwork
- Fast Learner & Self-Directed Growth
- Creative Thinking & Innovation
- Clean Code & Technical Documentation
- Effective Communication (Technical & Non-Technical)
- Attention to Detail & Analytical Reasoning
- Adaptability Across Multiple ICT Domains
- Data Storytelling & Visual Presentation
- Customer-Centric & Empathetic IT Support Mindset

ROLES I AM OPEN TO

As a versatile ICT graduate, I am actively seeking entry-level opportunities across the following areas:

- Junior Software Developer / Full-Stack Developer
- Junior Data Analyst / Business Intelligence Analyst
- IT Helpdesk / Technical Support Specialist
- Junior Network Administrator / NOC Technician
- Junior Cybersecurity Analyst / SOC Analyst
- Mobile App Developer (Android / Kotlin)

REFERENCES

Available on request.