

# TSHEGOFATSO NKOSI

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## PROFESSIONAL SUMMARY

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Full-Stack Developer with hands-on experience in technical documentation and web application development. Six months of professional experience in educational support, demonstrating attention to detail and reliability. Combines modern web development (Vite, React, TypeScript, JavaScript, Express.js, and Node.js) with cybersecurity fundamentals (ISC2 CC certified) to build secure, scalable applications.

## EDUCATION & CERTIFICATIONS

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**Hoërskool Westonaria High School** - Matric (Grade 12) - (2023)

**ISC2** - Certified in Cybersecurity (ISC<sup>2</sup>) – (2024)

**HyperionDev / University of Stellenbosch** - Full Stack Web Development (NQF 5) - (2024)

**Cisco Networking Academy** – Networking Basics (2025)

**Cisco Networking Academy** – Junior Cybersecurity Analyst (In Progress)

**Afrika Tikkun** - Introduction to Data Analytics (2024 – 2025)

## SOFT SKILLS & TECHNICAL SKILLS

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**Web Development:** JavaScript, TypeScript, Vite, React.js, Node.js, Express, HTML5/CSS, Python, NoSQL

**Networking & Cybersecurity:** TCP/IP, DNS, HTTP/HTTPS, Firewalls, Linux CLI

**Technical Tools:** Git, GitHub, Power BI, SQL, Docker, Postman, MongoDB

## PROFESSIONAL EXPERIENCE

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Education Assistant — ICT | [Isiqalo Full Service Primary School], | [June - 2025] – [November 2025]

- Assisted teachers with classroom management and maintaining student order during lessons
- Typed and formatted lesson preparation documents, examination papers, and administrative materials

## PROJECT EXPERIENCE

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**Superbalist-Inspired E-Commerce Store (React, Vite, TypeScript):** [[Live Demo](#), [GitHub Link](#)]

- Built a responsive e-commerce web app (React + Vite + TypeScript + Tailwind) with product browsing, dynamic routing, and polished UI.
- Implemented a persistent, per-user shopping cart and wish-list using Context API + localStorage for reliable state across sessions

### **AI Music Detector (React, Vite, TypeScript):** [[Live Demo](#), [GitHub Link](#)]

- Developed an **AI Music Detector** web app that analyzes audio files to estimate whether a track is AI-generated or human-created.
- Implemented **spectral, harmonic, temporal, and metadata analysis simulations** to produce confidence scores and detailed visual insights.
- Built the interface using **React, TypeScript, and Tailwind CSS**, delivering a modern, interactive user experience.

### **YouTube Downloader (Vite/React, Typescript and Tailwind CSS):** [[Live Demo](#), [GitHub Link](#)]

- Engineered a high-performance media tool that converts YouTube URLs into downloadable MP3/MP4 files with scalable bitrates (128kbps – 320kbps).
- Networking & Performance: Utilized Node.js Streams to pipe video data directly to the client response, minimizing server memory usage and reducing latency.
- Implemented basic security configurations and troubleshooting