

# Mphathisi Ndlovu

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## Full Stack Software Engineer & Cybersecurity Specialist

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 Bulawayo, Zimbabwe

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## FEATURED PROJECTS

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### Returni (POS & Ledger System) [React](#) · [Node.js](#) · [PostgreSQL](#)

Architected a complete Point of Sale and Ledger management solution for SMEs. Implemented dual tracking for transaction streams, secure ledger balancing, real-time inventory management, and intuitive backpay tracking.

### MStudio (Remote IDE) [PHP](#) · [Node.js](#) · [WebSockets](#) · [Linux Shell](#)

Created a remote development environment allowing developers to edit codebase files, execute bash terminals in real-time, view process trees, and manage project dependencies securely from a clean glassmorphic web dashboard.

### MShare (Optimized File Transfers) [PHP](#) · [JS](#) · [WebRTC](#) · [Chunked API](#)

Developed a peer-to-peer file sharing web application optimized for high-speed transfers. Built custom client-side chunking mechanisms to handle large media uploads with auto-resume, bandwidth capping, and transfer logging.

### Notak2 (Academic Portal) [Laravel](#) · [Supabase](#) · [Cloudflare R2](#)

Designed a robust university portal adopting NAPTS (Notes, Assignments, Presentations, Tests, Sources) structural paradigm. Built role-based access levels, R2 storage bucket integration, and automated database backups.

### LiveScript Terminal Suite [Bash](#) · [CLI UX](#) · [AI API Integration](#)

Built a sci-fi keyboard-driven terminal ecosystem mapping existing web tools (note-taking, local music playing, and custom LLM AI chats) directly to terminal hotkeys and retro styled ANSI interfaces.

## EXPERIENCE

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### Freelance Full Stack Developer & Security Auditor 2024 - Present

#### Independent Engineering & Auditing

- Architected custom web portals and API services integrating advanced security protocols.

- Refactored legacy workflows (MedAid platform) to secure manual medical verification pipelines.
- Conducted application security assessments, penetration testing, and access level isolation.

## **IT Systems Support & Network Engineer** 2022 - 2024

### **Systems Operations & Support**

- Maintained hardware systems, configured firewall routers, and automated OS system backups.
- Engineered helper scripts (Bash/Python) to audit user access logs and automate recovery.

## **ABOUT ME & VISION**

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I am a security-focused Full Stack Software Engineer and IT professional dedicated to crafting reliable, high-performance web ecosystems. I combine backend systems design with cybersecurity practices (auditing, system hardening, secure APIs) and systems administration to deliver digital products that are resilient under load and secure by default. My goal is to build software with absolute integrity, speed, and premium user experience.

## **TECHNICAL EXPERTISE**

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### **Programming & Scripting**

PHP, JavaScript (ES6+), Dart, Python, Bash, HTML5, CSS3/SASS, SQL

### **Frameworks & Technologies**

React.js, Laravel, Node.js (Express), Flutter, WebRTC, WebSockets, TailwindCSS

### **Infrastructure & Clouds**

Linux (Ubuntu/Debian), Apache, Nginx, Vercel, Supabase, Cloudflare R2, Git & CI/CD

### **Cybersecurity & Auditing**

OWASP Top 10 Auditing, Secure Authentication (JWT, Role Isolation), Network Hardening, Pentesting, Key Management

### **Database Management**

PostgreSQL, MySQL, SQLite, Redis (Caching)

## **EDUCATION & CREDENTIALS**

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### **Self-Directed & Peer Mentored Specialist**

#### **Advanced Software Architecture & Penetration Testing**

Ongoing Professional Development

### **IT Infrastructure & Technical Support Certifications**

#### **Systems Support, Routing Protocols & Security Auditing**