

ANDILE MNUKWA

Full Stack Developer

Portfolio

GitHub

LinkedIn

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 Cape Town, Langa, 7455



SUMMARY

I am a proactive and detail-oriented Full Stack Developer with progressive experience in designing and implementing dynamic web applications. Proficient in frontend technologies including React.js with TypeScript and responsive design principles, complemented by strong backend skills with Node.js, Express.js, and Django. Demonstrated ability to create scalable database solutions with MySQL, PostgreSQL, and MongoDB. Experienced in collaborative Agile/Scrum environments with a passion for clean code and optimized user experiences. Adept at applying analytical thinking and creative problem-solving to deliver high-quality software solutions that meet business objectives.



EXPERIENCE

FULL STACK DEVELOPER INTERN

Absa / CapaCiTi Programme

January 2024 – July 2025

Cape Town

Maestro Learn Project:

Developed a personalized, AI-powered learning platform that generates structured courses based on individual user needs and learning preferences. Built with React TypeScript frontend and Supabase backend. Implemented AI-generated course content, timeline-based course structuring, personalized learning paths, comprehensive assessments & evaluation system, and secure user profile & authentication.

VibeCatcher Project:

Developed a sentiment analysis application with React.js frontend and MySQL backend. Integrated AI algorithms for personalized recommendations and analytics. Improved application response time by 30% through code optimization.

Chat Application:

Built a real-time chat application using React.js and Socket.IO for bi-directional communication. Implemented user authentication, private messaging, and responsive UI for mobile devices.

Key Contributions:

Designed RESTful APIs for core system functions. Participated in Agile sprints, code reviews, and cross-functional collaboration. Implemented robust security measures including role-based authentication and data validation.

SOFTWARE DEVELOPER INTERN

Pan African Information Communication Technology Association

February 2023 – January 2024

East London

Risk Register System:

Built comprehensive risk management system using Django and MySQL. Implemented backend logic for risk assessment calculations and designed intuitive frontend templates.

Key Contributions:

Developed granular user permission systems with audit logging. Conducted client meetings to gather requirements and provide updates. Created and executed comprehensive test cases to ensure system quality.



EDUCATION

DIPLOMA IN INFORMATION TECHNOLOGY - SOFTWARE DEVELOPMENT

Walter Sisulu University

2019 - 2022

NATIONAL SENIOR CERTIFICATE

St Patrick's S.S.S

2013 - 2015



TECHNICAL SKILLS

PROGRAMMING LANGUAGES

HTML5/CSS3 (Advanced)

JavaScript/TypeScript (Intermediate)

Python (Intermediate)

SQL (Intermediate)

FRONTEND

React.js with TypeScript (Intermediate)

TailwindCSS + ShadCN

Radix UI Components

React Query

Recharts for Analytics

Bootstrap/Tailwind CSS

Responsive Web Design

UI/UX Principles

BACKEND

Node.js/Express.js (Intermediate)

Django (Intermediate)

Supabase (Auth + Database)

RESTful API Development

Authentication & Authorization

Zod for Validation

React Hook Form

Real-time Database

AI INTEGRATION

AI-assisted Code Generation

Dynamic Content Creation

Intelligent Course Structuring

DATABASES

MySQL (Intermediate)

PostgreSQL (Intermediate)

MongoDB (Basic)

SQLite (Basic)

METHODOLOGIES

Agile/Scrum

Test-Driven Development

Git Version Control

DEVELOPMENT TOOLS

Git/GitHub (Intermediate)

VS Code

Postman

Docker (Basic)

CI/CD Pipelines (Basic)



CERTIFICATIONS

Microsoft AI Fluency Course (2025)

Microsoft DevOps Solutions - Mecer Inter-Ed (Jan 2024)

Microsoft Power Platform App Maker - Mecer Inter-Ed (Nov 2023)

Microsoft Power Platform Fundamentals - Mecer Inter-Ed (Oct 2023)

Data Analysis With Python - 4IR (Jun 2023)



REFERENCES

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