Mthokozisi Nxumalo

☎ 073 778 9400
✉ nxumalomthokozisi7@gmail.com
in www.linkedin.com/in/mthokozisi-nxumalo/
📍 Johannesburg, Gauteng

EXPERIENCE

September 2025
Current

Junior Software Engineer | Pycentric

• Collaborated in developing and deploying a cloud-based application on Amazon EC2, implementing CI/CD pipelines to build, test, and push Docker images with automated linting and containerized testing; deployed production services using Nginx as a web server, ensuring scalable, maintainable, and secure delivery.

• Implemented monitoring and observability using CloudWatch and Grafana, tracking system performance, application metrics, and alerts to proactively detect and resolve issues.

Flutter, FastAPI, Python, MongoDB, Docker, CI/CD,AWS , Nginx, CloudWatch, Grafana, Loki,Promtail, Linters, Agile

October 2024
September 2025

Graduate Software Engineer | Pycentric

• Contributed to the development of full-stack features within a collaborative team, focusing on secure authentication, scalable APIs, and data-driven mobile integrations.

• Delivered backend services using FastAPI and MongoDB, integrating seamlessly with Flutter-based client applications.

• Engineered a FastAPI backend automating image-to-3D model conversion using PIFuHD and Blender, implementing texture-preserving GLB export and optimizing the workflow for upload efficiency and reliability.

• Supported CI/CD workflows and DevOps operations through containerization, testing, and version control best practices.

• Designed for scalability and future S3 integration, ensuring maintainable and secure code through peer reviews, documentation, and structured testing pipelines.

Flutter , FastAPI, Python, MongoDB, Docker, Unit Testing, S3 bucket, CI/CD, Agile, Grafana ,Swagger, Linux

August 2023
December 2023

Java Tutor | University of KwaZulu-Natal

• Java Tutor for the school of Computer Science and Information Technology

EDUCATION

University of KwaZulu-Natal

Bsc Computer Science & IT
Graduated 21 Dec 2023

High School

Sunnydale Secondary School

SKILLS

PROGRAMMING LANGUAGES | Python, Dart, Java, C++, C#, Javascript, ASP.NET, HTML ,CSS

PYTHON ECOSYSTEM | FastAPI Streamlit, Typer/TyperCLI, Numpy, Pandas, threading, multiprocessing, Jupyter Notebook, Jupyterlab, Pytest, flake8, black

DART | Flutter

VERSION CONTROL : Git , Github

MONITORING | Grafana, Loki, Promtail, Amazon CloudWatch

DATABASES | MongoDB, MySQL, Redis

CLOUD / COMPUTE | Amazon EC2, Google Compute Engine (GCE), Google Cloud Run

INFRASTRUCTURE AS CODE : Cloud Formation, Terraform

CONTAINERISATION | Docker , Docker compose

CI/CD | GitHub Actions, Docker pipelines, Linters

API DESIGN & INTEGRATION | RESTful APIs, JSON, Swagger, Postman, curl

TESTING : Unit Testing , Integration Testing

OPERATING SYSTEMS/IDEs | Debian/Ubuntu Distros, Linux, Mac OS, Windows , Android, Android Studio, VS Code, PyCharm,

PRESENTATION/COMMUNICATION | Jira, Confluence, Markdown , Office(Word , Excel , PowerPoint)

PROJECTS

Localoop | (Personal Project)

Link: **Localoop Demo**

A location-based community chat platform that connects people through the places they visit. Instead of generic social media, Localoop anchors conversations to real-world locations — cafés, parks, universities, and neighborhoods.

Core Features:
Location discovery, real-time messaging, and hyperlocal community channels.
Secure authentication via Google OAuth and email-based OTP verification.
Admin dashboard for content moderation and community analytics.

Tech Stack:
Flutter | FastAPI | MongoDB | Docker | Google Cloud

Key Implementations:
- WebSocket infrastructure enabling real-time two-way communication.
-JWT-based security with refresh token management.
-Cloud-ready architecture with CI/CD pipelines for staging and production deployment.

Status:
Currently live in a closed beta with early testers providing feedback before Play Store release.

Portfolio Website | mrceo.netlify.app

Built a responsive personal portfolio showcasing projects and skills, featuring interactive games and API integrations.

Developed using HTML, CSS, JavaScript, and Tailwind CSS.
GitHub: github.com/mthoko-n/web-portfolio

ACHIEVEMENTS

FOUNDATIONAL C# WITH MICROSOFT
Certificate Link(Click here)

FNB APP ACADEMY 2025 CERTIFICATE
Certificate in full-stack development

CERTIFICATE OF MERIT UKZN
Top 3 in Java (COMP102)

CERTIFICATE OF MERIT UKZN
Top 3 in C++ (COMP315)