

SIPHAMANDLA MDLETSHE

Software Developer

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PROFESSIONAL SUMMARY

Results-driven Software Developer with enterprise delivery experience across South Africa's leading telecommunications and financial services companies. Engineered production-grade microservices, payments systems, and cloud-native platforms at Vodacom and Momentum Group Limited. Contributed to South Africa's two-pot retirement system processing initiative — one of the most significant financial regulatory events in recent SA history. At Vodacom, delivered a live PIN authentication migration on the VodaPay payments platform (4-digit to 6-digit) with full backward compatibility, and currently spearheading ITSM reporting automation that eliminates hours of daily manual operational work. Proficient across the full stack: Java, Spring Boot, Node.js, Angular, React, Next.js, AWS, Azure, Docker, and Kubernetes. Brings a strong security, DevOps, and cloud infrastructure background with certifications from Microsoft, AWS, and the Linux Foundation.

KEY ACHIEVEMENTS

- **Two-Pot System Processing:** Contributed to Momentum Group's infrastructure that positioned the company among the first South African financial institutions to process two-pot retirement system payouts under the Pension Funds Act — a high-pressure, regulatory-deadline-driven delivery.
- **VodaPay PIN Migration:** Engineered the backend migration of Vodacom VodaPay from 4-digit to 6-digit PIN authentication using Java and Spring Boot — a zero-downtime change on a live payments platform with millions of active users, delivered with full backward compatibility across mobile and web clients.
- **Multi-Team Impact at Vodacom:** Contributed meaningfully across three separate Vodacom engineering teams within a single deployment — biometric identity verification, VodaPay payments, and Intel/L1 ITSM automation — demonstrating adaptability and consistent delivery.
- **Reporting Automation Pipeline:** Designing and building a Python/FastAPI ELT pipeline that replaces fully manual daily, weekly, and monthly reporting workflows. Each analyst currently produces up to 6 reports per cycle by hand; the system automates ingestion, transformation, and dashboard delivery end-to-end.
- **Legacy System Modernisation:** Led the modernisation of a call recording and blob storage pipeline at Momentum — replacing a slow legacy process with Angular, Node.js BFF, and AWS Lambda, dramatically improving throughput and maintainability across multiple business units.

CORE COMPETENCIES

Full-Stack Development	Microservices Architecture	Cloud Engineering (AWS & Azure)	Java / Spring Boot
Node.js / TypeScript	Angular / React / Next.js	Docker & Kubernetes	CI/CD Pipelines
RESTful & SOAP APIs	OAuth / JWT / RBAC / SSO	PostgreSQL / MySQL / MongoDB / Redis	DevOps & Observability
Python / FastAPI	Power BI / Qlik Sense	Agile / Scrum	ITSM Automation

PROFESSIONAL EXPERIENCE

Software Developer

Binary Innovative Technology Solutions — Deployed at Vodacom | 2025 – Present

Intel / L1 Support — ITSM Reporting Automation (Current)

- Architected a Python/FastAPI ELT pipeline replacing fully manual reporting workflows — ingesting Remedy/Helix Excel exports through a three-layer MySQL schema (raw → staging → reporting) and delivering metrics via a Next.js dashboard.

- Automated daily, weekly, and monthly operational reports previously produced by hand — each analyst generating up to 6 reports per cycle — eliminating hours of manual effort per person across the Intel support team.
- Engineered ground-truth-accurate KPI calculations validated against Excel GETPIVOTDATA benchmarks, covering incident resolution rates, TSS categorisation, SLA adherence, and aging analysis.
- Designed Power BI-connected reporting layers to surface operational metrics to leadership with real-time visibility.

VodaPay — Buy Bundles Team

- Engineered the backend authentication upgrade of Vodacom VodaPay from 4-digit to 6-digit PIN in Java and Spring Boot — a live migration on a high-traffic payments platform serving millions of active users, delivered with zero service disruption.
- Designed and implemented full backward compatibility across mobile and web client surfaces, ensuring seamless rollout without forced user re-enrollment or session invalidation.
- Overhauled the team's logging and observability architecture, standardising structured logging practices and reducing mean time to diagnose production incidents.

Biometric Identity Verification Platform

- Delivered core microservices for facial recognition, fingerprint matching, and national ID validation — integrating with external identity providers via RESTful and SOAP APIs within a cloud-native AWS architecture (EKS, RDS, ElastiCache, S3).
- Implemented a dynamic rule-based authentication engine to automate identity workflows and reduce manual intervention, with real-time user feedback delivered via SSE and webhooks.
- Secured the platform end-to-end with TLS encryption, OAuth 2.0, JWT, and RBAC — integrating with enterprise CRM, banking, and document management systems for seamless data flow.

Software Developer

Momentum Group Limited | 2023 – May 2025

Two-Pot Retirement System & Financial Infrastructure

- Contributed to the engineering initiative that positioned Momentum Group among the first South African financial institutions to process two-pot retirement system payouts — delivering under significant regulatory timeline pressure on infrastructure used across the broader Momentum Group.
- Modernised a legacy call recording and blob storage pipeline: replaced a slow, outdated process with an Angular frontend, Node.js BFF layer, and AWS Lambda functions — significantly improving processing throughput and system maintainability.
- Engineered and maintained call centre monitoring services used across multiple Momentum business units, improving service visibility and supporting reliability for internal operations at scale.
- Operated across a regulated financial services technology stack: Node.js, Java, Angular, Kubernetes, Docker, AWS (EKS, S3, Lambda), and Jenkins CI/CD pipelines in an Agile Scrum environment.

TECHNICAL SKILLS

Languages	JavaScript, TypeScript, Java, Python, Dart
Frontend	Angular, React.js, Next.js, React Native, HTML5, CSS3, Tailwind CSS, Flutter
Backend	Node.js, Spring Boot, FastAPI, Microservices Architecture, RESTful APIs, SOAP
Cloud	AWS (EKS, S3, RDS, ElastiCache, ALB, Lambda, Direct Connect), Microsoft Azure
DevOps	Docker, Kubernetes, Jenkins, CI/CD Pipelines, Git
Databases	MySQL, PostgreSQL, MongoDB, Redis
Security	OAuth 2.0, JWT, RBAC, SSO (NetIQ), TLS, WAF (Imperva), Web Security
BI & Analytics	Power BI, Qlik Sense, Excel Automation, Helix/Remedy Reporting

EDUCATION

NQF Level 5 — Information Technology: Systems Development

2021 – 2023

WeThinkCode_

Diploma in Law
University of South Africa

2020 – Present

CERTIFICATIONS

Microsoft Certified: Azure AI Fundamentals

Microsoft

AWS Certified Cloud Practitioner

Amazon Web Services

LFS250: Kubernetes and Cloud Native Essentials

Linux Foundation