Obey Musimbo

COO, OMNATIX | Data, AI and Product Engineering

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PROFILE

COO of OMNATIX, a Gauteng technology company building AI agents, websites, and dashboards for South African businesses. Leads product development and AI engineering, and takes products from idea to launch: Tenanto, a property management platform for small landlords; EduAid Explorer, a free bursary finder for students; and decision intelligence dashboards built on tested data pipelines. Data and AI Engineer at Afribit Technologies, delivering Microsoft Fabric, Power BI, and Copilot Studio work for enterprise clients. Five years in 24/7 operations control behind a calm, process-driven approach to delivery.

EXPERIENCE

Chief Operating Officer

Jan 2026 to Present

OMNATIX, Johannesburg (Hybrid)

- Lead product development and AI engineering across every solution, from prompt design and data architecture to the end-to-end build of intelligent agents.
- Product lead and architect for Tenanto, property management for South African landlords with one to twenty units: a React Native landlord app, an install-free tenant PWA, and an Astro marketing site on one Supabase backend with row-level security on every table, encrypted ID numbers, and a full audit trail.
- Ran four pilot feedback rounds and shipped proof of payment, digital lease signing, push notifications, and a one-click SARS audit pack, taking Tenanto to its version 1.0 market-readiness release.
- Built the OMNATIX decision intelligence demos and rebuilt EduAid Explorer as a free web platform (see Selected Projects). Own security and POPIA decisions, technical documentation, and release delivery.

Data and AI Engineer

Apr 2025 to Present

Afribit Technologies, Johannesburg (Hybrid, internship)

- Build and maintain data pipelines and analytics solutions on Microsoft Fabric (Data Factory, Lakehouses, Notebooks), and Power BI reports and dashboards for enterprise clients.
- Led end-to-end delivery of the Bidvest Plumblink Procurement Intelligence platform: data modelling, KPI logic audits, anomaly detection, and executive presentations.
- Designed and delivered Microsoft 365 Copilot training for KZN COGTA (Cooperative Governance and Traditional Affairs) stakeholders, including facilitator run-sheets and hands-on demos.
- Design conversational agents and intelligent automation, and contribute to full-stack client applications, across data analytics, data engineering, AI engineering, and software development.

Freelance Programmer

Jul 2023 to Present

Self-employed

- Automation, web development, and data tooling projects, including open-source utilities and a cross-platform notes app (see Selected Projects).

Operations Control Specialist

Nov 2019 to Dec 2024

Alpha Armed Response, Johannesburg

- Managed real-time operational monitoring and incident response in a 24/7 environment for over five years.
- Coordinated cross-functional communication during critical operational events, building the discipline and calm decision-making under pressure that now shape product delivery.

SELECTED PROJECTS

Decision Intelligence Demos, OMNATIX omnatix-bi-demos.pages.dev

Four analytics demos (FMCG distribution, freight, microfinance, clinic group) that turn raw CSV exports into findings worth money. Bronze, silver, and gold layers in dbt with tests that block any unchecked number from publishing, and a query engine that runs in the browser with no server to host.

EduAid Explorer, OMNATIX eduaid-explorer.vercel.app

Free platform that matches students against nine funders' published bursary rules, calculates admission points the way each university does, and flags scam payment messages. Verdicts come from rules checked by code, not AI, and personal details stay on the device. The first version, a Copilot Studio agent with 37 pages of technical documentation, was submitted to the 2026 Microsoft Virtual Agent-a-thon (Level 1, EMEA).

New Hope Stars FC and the club-site platform new-hope-stars.web.app

Live website and admin portal for a grassroots football academy, plus a generator that turns a short form into a branded club site with its own admin portal. Firebase, hardened security rules, XSS-escaped output.

Universal Notebook github.com/Obey-Afribit/obey-notebook

Offline-first Flutter notes app for Android, Windows, and the web, with Markdown editing, Supabase sync behind row-level security, and a GitHub Actions pipeline that ships every push to a live APK, Windows build, and PWA.

Adobe Acrobat Bulk Downloader github.com/Obey-Afribit/adobe-acrobat-bulk-downloader

Open-source Python and Playwright tool, built for a real task of 500+ government photos shared as view-only links. Resumable downloads, automatic retries, and original filenames preserved.

Sunbird Validation demo

Adaptive learning app for Grade 1 to 3 in English, Afrikaans, isiZulu, and Sesotho, with a speech-based reading coach, visual maths, and a parent dashboard with WhatsApp-shareable weekly reports.

SKILLS

Data and analytics	Microsoft Fabric, Power BI, DAX, SQL, dbt, Azure Data Factory, Lakehouses, data modelling, Real-Time Intelligence
AI engineering	Microsoft Copilot Studio, Azure AI Foundry, agentic AI, prompt engineering, embeddings and RAG, Azure OpenAI, Claude API, conversational AI
Product engineering	Python, JavaScript and TypeScript, React, React Native and Expo, Flutter and Dart, Node.js, Supabase (Postgres, row-level security, Edge Functions), Firebase, Astro, Playwright
Delivery	Product strategy, security and POPIA compliance, technical documentation, Git and GitHub Actions CI/CD, Microsoft 365 and SharePoint, Power Platform, training and facilitation

CERTIFICATIONS

Microsoft Certified: Azure AI Apps and Agents Developer Associate	Oct 2026
Oracle Agentic AI Certified Foundations Associate	Oct 2026
Microsoft Certified: Fabric Data Engineer Associate	Feb 2026
Microsoft Certified: Fabric Analytics Engineer Associate	Aug 2025, renewed
Microsoft Certified: Power BI Data Analyst Associate	Apr 2025, renewed
Microsoft Applied Skills: Create agents in Microsoft Copilot Studio	Jan 2026
Microsoft Applied Skills: Implement Real-Time Intelligence with Microsoft Fabric	Jul 2025
Oracle Cloud Infrastructure 2024 Generative AI Certified Professional	Jul 2024
AI Skills Fest 2026 (Microsoft)	Jun 2026
Agent Explorer (Founderz)	Feb 2026
Certificate in Full Stack Development (IT Varsity)	Jul 2025
FNB App Academy Certificate (FNB)	2025

Microsoft Learn: Level 10, 111,575 XP, 75 badges, 19 trophies.

EDUCATION

National Senior Certificate (Matric)
Bhukulani Senior Secondary School, 2014

LANGUAGES

English (fluent), isiZulu (fluent), Shona (native)

Interests: AI for social impact, EdTech, financial inclusion