

Precious Mposa

Future CV | AI & Decision Intelligence Systems Engineer

Full-Stack Engineering -> Data + AI Platforms -> AI Systems Architecture

Lilongwe, Malawi
Open to Remote Global Roles
+265 886 630 425 | +265 987 592 607
mposacprecious@gmail.com
precious@market-xt.com
preciousmposa.market-xt.com
LinkedIn: precious-mposa-7906a3398

Target version after completing the Data-to-AI roadmap. Replace target items with completed achievements before using for formal applications.

PROFESSIONAL PROFILE

AI and Decision Intelligence Systems Engineer with a strong full-stack software engineering foundation and a growing specialization in data engineering, machine learning, LLM systems, MLOps and AI agents. Experienced in building production-grade web, mobile and operational systems for SMEs, startups and organizations, with a portfolio that already includes AI-enabled agriculture, media intelligence, audio learning, book intelligence and business operations platforms. Future positioning: a builder of data-powered AI products that convert business processes into measurable intelligence, predictions and automated decision support.

CORE PROFESSIONAL IDENTITY

Data-to-AI Systems Builder Decision Intelligence Engineer	AI Product Architect MLOps-Oriented Software Engineer	LLM Application Engineer Full-Stack AI Platform Developer
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FUTURE SKILLS ARCHITECTURE

Domain	Future capability
Data & BI	Advanced SQL, Power BI, DAX, KPI design, business metrics, dashboarding, data modelling, Python analysis.
Data Engineering	ETL/ELT, dbt, Airflow, data warehouses/lakes, Spark basics, API ingestion, data quality, pipeline automation.
Machine Learning	scikit-learn, feature engineering, regression, classification, clustering, forecasting, model evaluation and experiment tracking.
Deep Learning	PyTorch/TensorFlow, neural networks, embeddings, transformers, audio models, GPU-based training and optimization.
LLMs & GenAI	RAG, vector databases, prompt engineering, tool use, fine-tuning basics, LLM evaluation, guardrails and cost optimization.
AI Engineering	FastAPI, Docker, CI/CD, MLflow, model serving, monitoring, Kubernetes basics, cloud deployment on GCP/AWS.
Product Engineering	React, Next.js, React Native, Node.js, Express, Supabase, PostgreSQL, APIs, system architecture and product strategy.

TARGET ROLES

AI Engineer Data + AI Platform Engineer	LLM Application Engineer MLOps Engineer	Machine Learning Engineer Decision Intelligence Systems Architect
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PROFESSIONAL EXPERIENCE

Systems Architect & Systems Administrator | F&N Business Consultants | Aug 2025 - Present

Architect and deploy production systems supporting company-wide operations and internal workflows.
Design scalable digital infrastructure with Docker and GitHub Actions CI/CD pipelines.
Maintain high-availability business-critical platforms and strengthen operational reliability.
Future growth focus: convert operational systems into data-driven intelligence platforms with analytics, forecasting and AI-assisted workflow support.

AI Product Builder & Full-Stack Engineer | Market XT / Independent Portfolio | 2024 - Present

Build AI-enabled products across SME operations, agriculture, media intelligence, audio learning, housing discovery and knowledge extraction.
Design reusable full-stack product architecture combining frontend applications, APIs, PostgreSQL/Supabase, model APIs, analytics and deployment workflows.
Future growth focus: evolve portfolio into production-ready data-to-AI platforms with RAG, MLOps, evaluation pipelines and agentic decision support.

Technology & Operations Consultant | People Development Fund | Mar 2025 - Jun 2025

Built the organization's website and full digital presence from scratch.
Advised leadership on operational strategy and digital infrastructure planning.

Future growth focus: design data collection, impact tracking and AI-assisted reporting systems for organizational decision-making.

Marketing, Sales & Technology Assistant | S&M Properties | Jan 2025 - Jun 2025

- Digitised 500+ client records spanning more than five years, creating the first structured digital archive.
- Designed digital data management workflows that reduced dependence on paper-based processes.
- Coordinated digital campaigns contributing to approximately 20% revenue growth.
- Future growth focus: build customer analytics, CRM intelligence and predictive dashboards for property operations.

Technology & Operations Strategy Consultant | MTech Security Systems | Oct 2024 - Jan 2025

- Contributed technology planning and infrastructure design during the company's founding stage.
- Future growth focus: support security operations with structured data capture, monitoring dashboards and AI-assisted service workflows.

IT Assistant | Adlib Executive Lodge | Aug 2023 - Oct 2024

- Managed IT infrastructure, CCTV deployment and operational technology systems.
- Future growth focus: integrate hospitality operations with analytics, digital asset management and business intelligence.

FUTURE PORTFOLIO: REAL-WORLD DATA-TO-AI PROJECTS

Project	Future real-world value
MBiz Intelligence Platform	SME business operations platform upgraded with Power BI dashboards, cash-flow analytics, workflow intelligence, churn/risk indicators and AI-assisted management reports.
SmartFarm Malawi AI Advisory	Agricultural platform using farmer, crop, weather and advisory data pipelines to support recommendations, crop planning, analytics and future predictive models.
VidIntel Enterprise	Video/audio intelligence system that turns long-form content into transcripts, summaries, topics, action items, searchable knowledge bases and RAG-powered Q&A.
Deep Listen AI v2	Audio learning and music intelligence platform using stem separation, embeddings, model evaluation and practical music-learning workflows.
BookWise RAG Knowledge System	Knowledge extraction platform that converts books into structured insights, action plans, semantic search and personal learning assistants.
MXT AI Deployment Kit	Reusable production template for AI applications: FastAPI, Next.js, PostgreSQL, vector database, Docker, CI/CD, logging, evaluation tests and cloud deployment.
MXT Decision Intelligence Agent	AI agent connected to business data sources that analyses performance, explains dashboards, recommends actions and prepares executive reports.

FUTURE CERTIFICATION PORTFOLIO

Stage	Target credentials
Data Foundations	Google Data Analytics Professional Certificate; Microsoft Certified: Power BI Data Analyst Associate (PL-300).
Data Engineering	IBM Data Engineering Professional Certificate; Google Cloud Professional Data Engineer; AWS Certified Data Engineer - Associate; Databricks Data Engineer Associate.
Machine Learning	DeepLearning.AI Machine Learning Specialization; Google Advanced Data Analytics; Databricks Machine Learning Associate.
Deep Learning + AI	DeepLearning.AI Deep Learning Specialization; Google Cloud Professional Machine Learning Engineer; AWS Machine Learning Engineer - Associate.
Generative AI	NVIDIA Certified Associate: Generative AI LLMs; NVIDIA Professional Generative AI LLMs / Professional Agentic AI.
Production AI	Certified Kubernetes Application Developer (CKAD); practical MLOps portfolio with model serving, monitoring, CI/CD and evaluation pipelines.

SELECTED SOFTWARE PRODUCTS

Product	Description
MBiz	SME business operations platform for finances, documents, clients and workflows. Stack: Next.js, Node.js, PostgreSQL,

Product	Description
	Supabase.
SmartFarm Malawi	AI agricultural management platform for smallholder farmers with crop advisory and analytics. Stack: React Native, Python, TensorFlow, Firebase.
VidIntel	LLM pipeline converting video content into transcripts, summaries and actionable insights. Stack: TypeScript, DeepInfra APIs, Next.js.
Deep Listen AI	Audio platform with stem separation and music learning using open-source models. Stack: Python, TensorFlow, React.
BookWise	Mobile app extracting key insights and action plans from books using AI. Stack: React Native, LLM APIs, Supabase.
MaraviNest	Housing discovery platform connecting renters and property owners across Malawi. Stack: Next.js, PostgreSQL, GCP.
Practice Flow	Desktop deep-work session manager with focus timers, logging and analytics. Stack: Rust, Tauri, TypeScript.

EDUCATION

B.E. Computer Science	DMI - St. John The Baptist University, Lilongwe 2019 - 2024 Lower First Class Honours Reg. No: 19311055014
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SELECTED CLIENT DELIVERIES

Stratex Pest Control Website + CRM | Kaliso Art Gallery CMS gallery site | Inspyre Solutions logistics website | Healing Piano musician site + CMS | Paul Kachala Music artist site + admin | FreeWorship Malawi CMS + events | Dotaz Lounge cafe site + order system

FUTURE POSITIONING SUMMARY

Positioning statement: A full-stack software engineer evolving into a Data-to-AI Platform Engineer and AI Decision Intelligence Systems Architect, capable of building the full lifecycle: data capture, storage, analytics, machine learning, LLM systems, AI agents, deployment and measurable business impact.

Best-fit opportunities: AI Engineer, LLM Application Engineer, Data + AI Platform Engineer, Machine Learning Engineer, MLOps Engineer, Decision Intelligence Engineer and AI Product Architect.

Strongest market differentiation: combines production software engineering, business systems, data workflows, AI product development and African-market problem solving.

References, GitHub and live portfolio links available on request.