

Katlego Mokoto

AI ENGINEER · AI SYSTEMS ARCHITECT · FULL-STACK + .NET / C#

katlego.mokoto.km@gmail.com

065 842 4274

mensmercatus.online

Johannesburg, South Africa · Open to Johannesburg, Pretoria, Cape Town & Durban (on-site, hybrid or remote)

Systems architect

Full-stack engineer

.NET / C# developer

AI architect

● AVAILABLE

■ Targeting

Portfolio proof: Cartel .NET robot (ASP.NET Core + Gemini), THINK (React 19 + Vite + TypeScript), Mens Mercatus Sound Deck, Forex Mercatus Codex, JobNet, Antigravity / local LLM stack. Walkthrough: mensmercatus.online/assets/video/walkthrough.mp4

■ Technical stack

LANGUAGES

Python

TypeScript

C#

JavaScript

FRONTEND

React

React 19

Next.js

Vite

AI / ML

LLM orchestration

RAG

LangChain

Ollama

BACKEND

ASP.NET Core 8

.NET / C#

FastAPI

Node.js

DATA

PostgreSQL

Pandas

NumPy

yfinance

■ Core domains

OLLAMA · AGENT ZERO · CURSOR · RAG · CHROMADB · APPLE SILICON M4 · GEMINI

Agentic AI & Local Compute

Design and ship sovereign agent stacks: tool-using agents, RAG over live data, local LLM orchestration to cut API dependency, and high-throughput inferencing on Apple Silicon. Cloud path uses Gemini via an OpenAI-compatible chat/completions client.

FULL-STACK · ASP.NET · REACT 19 · WEB AUDIO · AUTOMATION · USER-FACING AI TOOLS

Applied AI Product Engineering

Build end-to-end AI products (generation UIs, copilots, job-automation meshes, multimodal workspaces) with production-minded UX, offline-capable clients, and clear human-in-the-loop controls.

■ Flagship systems

2026 · ASP.NET CORE 8 · GEMINI

LIVE

Mercatus Assist / Cartel Robot

ASP.NET Core 8 minimal API (C#) that calls Gemini through an OpenAI-compatible chat/completions client so the provider can be swapped in config. Exponential backoff retries on 429/5xx. Runs as a systemd service on an Ubuntu VPS behind nginx; static site on DreamHost sits behind Cloudflare.

C#ASP.NET Core 8Geminisystemd

2026 · REACT 19 + VITE + TYPESCRIPT

LIVE

THINK — Hybrid Social & AI

Multimodal Gemini workspace (chat, live voice, Net Sites, Net Code, Netzar Protocol, Net Learn). Front end is React 19 + Vite + TypeScript; server-side Node proxy calls Gemini and relays live-voice over WebSocket, with per-IP rate limits.

React 19ViteTypeScriptGemini proxy

2026 · BROWSER DAW / AI MUSIC

DEMO

SoundX / Sound Deck

Original browser DAW with AI Producer (order-taking studio assistant), demo stem split, 16-step beats, mic/vocal pipelines, VST slot framework, and in-house text-to-music / stem / continuation generation.

Web AudioAgentsDSPTypeScript/JS

2026 · CAREER AUTOMATION

DEMO

JobNet

Weekday pipeline: noon multi-board scrape; CV tailor + AI Hawk draft fills with human confirm before submit; Gmail reply watch + SMS/email notify.

AutomationAgentsGmailmacOS shell

2026 · PYTHON DESK :8790

DEMO

Forex Mercatus Codex

~87MB Python + Highcharts desk for FX workflows; Chart, Multi, Whales, Flow, Bot. Hosted on VPS as live paper research.

PythonHighchartsyfinancePaper only

Selected portfolio

Project AntigravityMar 2026 – Present

AI Systems Architect & Founder

Sovereign, decentralized AI OS for autonomous task execution and specialized agentic workflows.

OllamaAgent ZeroNebiusLLM Ops

Experience narrative

Hands-on builder of agentic products: copilots that execute studio/job/market actions with explicit user confirmation gates. Comfortable in Python, TypeScript, and C# / ASP.NET Core; ships Gemini-backed APIs on a VPS (systemd + nginx) and React 19 fronts on the portfolio.