

TISHA PATIENCE MALONGO

SOFTWARE & AI ENGINEER

LOCATION	Entebbe, Uganda
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PROFILE

Software and AI engineer from Entebbe who turns real problems into working software. I've built a full-stack inventory system for a hardware business, a RAG-powered technical guide and an LLM interview coach, and I'm now going deeper into AI agents at Turing College. Rugby (Uganda U20, club captain) taught me to lead and perform under pressure; photography taught me to notice detail. I bring both to every build.

TECHNICAL SKILLS

- Programming & Web** Python, JavaScript, HTML, CSS, Django, Flask, Django REST Framework, React
- AI & LLM Applications** OpenAI API, OpenRouter, prompt engineering, LangChain, RAG, embeddings, document chunking, semantic retrieval, LLM evaluation
- Data & Tools** SQL, MySQL, SQLite, Git, GitHub, GitHub Actions, VS Code, uv, pytest, Ruff
- Developing** AI agents, LangGraph, LangSmith, tool calling, Model Context Protocol (MCP), IoT & Embedded Systems

SELECTED PROJECTS

- Nyondo General Hardware Management System** | Full-stack web app Deployed
Django system for a wholesale and retail hardware business: separate manager and attendant dashboards, automatic stock updates on every sale, supplier credit tracking with payment status, auto-generated receipts, and validation for Ugandan phone numbers and National IDs.
Tech: Python, Django, SQLite, ReportLab
- CircuitGuide** | RAG-based technical guidance application Completed
Built a technical guidance application that answers questions from a knowledge base. Worked with document chunking, embeddings, similarity search and retrieval evaluation.
Tech: Python, LangChain, RAG, embeddings
- RoleReady** | AI interview coach Completed
AI-assisted interview preparation app using an LLM API, focused on prompt design and helping users practise structured interview responses.
Tech: Python, Streamlit, OpenRouter, prompt engineering

EDUCATION & TRAINING

- Turing College** | AI Engineering Jul 2026 – May 2027 (expected)
LLM applications, RAG and agent-based workflows.
- Groundbreaker x Spiro Academy** | IoT & Embedded Systems Programme In progress – Nov 2026
- Refractory Academy** | Certificate in Software Engineering (Python) Mar – Jun 2026
- Hillside High International School** | Cambridge Curriculum, graduated with honours 2018 – 2023

ADDITIONAL EXPERIENCE

- Contributor & Staff Writer** | Swans Club Magazine, Entebbe Jan 2025 – Present
Contribute photography and articles; developed writing, editing and cross-team collaboration skills.
- Photographer** | Swans Sports Club, Entebbe Aug 2025 – Present
Capture and edit photos for events and clients with close attention to detail.

LEADERSHIP & ACHIEVEMENTS

- Uganda Under-20 National Rugby Team (2022):** represented Uganda at national level.
- Rugby player & captain, Swans Rugby Club (2021 – Present):** team leadership, strategy and collaboration.