

ANTONEY THUO

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PROFESSIONAL SUMMARY

Results-driven **Forward Deployed & Systems Engineer** with 4+ years of hands-on experience designing, deploying, and maintaining production-grade software solutions, automated CI/CD pipelines, and enterprise API integrations. Proven expertise in **Azure App Service, Gunicorn WSGI, Azure Pipelines, Docker, Python, and PostgreSQL**. Experienced in bridging technical delivery with stakeholder requirements, taking complex AI and data workflows from initial proof-of-concept into stable, scalable production environments.

CORE COMPETENCIES & TECHNICAL SKILLS

Primary Languages: Python, TypeScript, JavaScript (Node.js), SQL, Java, Shell Scripting.
Cloud & DevOps Infrastructure: Azure App Service, Azure Pipelines, Gunicorn, Docker, GitHub Actions, CI/CD, Linux Administration.
AI & Data Engineering: LLM Integration & Prompt Engineering, Structured JSON Outputs, Vector Retrieval, ETL Pipelines, RAG Workflows.
Databases & Systems: PostgreSQL (Query Tuning, Indexing, RLS), SQLite, Redis, RESTful & SOAP Enterprise APIs.
Delivery & Ownership: End-to-End System Deployment, Technical Solution Design, Root Cause Analysis, Async Collaboration.

PROFESSIONAL EXPERIENCE

Forward Deployed & Systems Engineer – M365CONNECT Remote (EMEA) | Dec 2025 – Present

- Architect, maintain, and deploy end-to-end data processing pipelines using Python on **Azure App Service** backed by **Gunicorn WSGI workers**.
- Configure and manage **Azure Pipelines** for automated testing, continuous integration, and zero-downtime production deployments.
- Build robust Python and Java integrations for external SOAP/XML APIs, programmatically parsing and transforming unstructured enterprise data.
- Work directly with internal and external stakeholders to translate complex business needs into production-ready system architecture.

Backend Engineer & Data Analyst – M365CONNECT Remote (EMEA) | Jan 2025 – Present

- Modeled and maintained production **PostgreSQL** transactional pipelines, enforcing data integrity and payment gateway integrations.
- Refactored complex SQL queries and execution plans, **improving backend processing speeds by 60%**.
- Built automated error logging and observability routines to rapidly diagnose edge-case production failures and microservice discrepancies.
- Authored complete technical implementation guides, system architecture diagrams, and operational playbooks.

Software Developer Intern – M365CONNECT Remote (EMEA) | Jul 2024 – Dec 2024

- Shipped 15+ RESTful microservices with 95% automated test suite coverage in TypeScript and Java.
- Built automated deployment pipelines with **GitHub Actions** and GitLab CI, reducing release cycles by 87%.
- Improved API response latency by 40% through database query indexing, memory optimization, and caching strategies.

Software Developer Intern – Sunprime Ltd Nairobi, Kenya | Jun 2023 – Dec 2024

- Engineered automated payment settlement pipelines backed by PostgreSQL, SQLite, and Python.
- Maintained multi-store Point-of-Sale (POS) software, resolving concurrent transaction locking and database synchronization issues.

KEY PROJECTS & DEPLOYMENTS

- Enterprise Risk Processing Pipeline:** Designed a Python-based automated data pipeline that parses raw enterprise inputs, handles schema validation, and writes structured outputs to cloud storage with automatic retries.
- Multi-Tenant Backend with LLM/Vector Integration:** Built a multi-tenant backend using Supabase Auth and Row-Level Security (RLS) in PostgreSQL, integrating vector embeddings for semantic document search.

EDUCATION & CERTIFICATIONS

Master of Computer Science – University of Nairobi In Progress
BSc in Computer Science – The Cooperative University of Kenya Sep 2021 – Jun 2025
Focus: Software Architecture, Distributed Systems, Cloud Computing, Database Systems
AWS Certified Solutions Architect – Associate – Amazon Web Services Credential