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Matome Mbowene

Software & AI Engineer, production OCR / document automation, retrieval (RAG), backend systems

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Summary

I build production-focused AI features that ship: document automation, retrieval pipelines, and services, measured, validated, and designed for reliability. I'm comfortable across the stack and I optimize for correctness, maintainability, and clear delivery.

Selected outcomes (public-safe)

- **100%** OCR field-mapping accuracy on a defined document set using validation-first design.
- **89.33%** FashionMNIST model accuracy (public demo context).
- **35%** scheduling efficiency improvement (public-safe summary).

Experience (public-safe highlights)

Computer vision & document automation

Recent

- Built a validation-first OCR pipeline with confidence scoring and auditability.
- Designed layered checks and fallbacks to reduce silent extraction errors.

Retrieval systems (RAG)

Recent

- Developed a RAG assistant pipeline with reproducible indexing and conservative guardrails.
- Improved "proof" signals by linking outputs back to sources where possible.

- Contributed to latency-aware, reliability-first pipeline design (public-safe summary).

Some work is under NDA; I can discuss engineering approach and outcomes at a high level.

Skills

Python

OpenCV

OCR

RAG

FAISS

REST APIs

SQL

Java

C/C++

CI/CD

Linux

Testing

Observability

Education (approved)

University of Cape Town (Computer Science & Computer Engineering)

Certifications & programs

- Google Cloud skill badge(s) ([Credly](#))
 - Dell Young Leaders ([Program](#))
 - Google Cloud Career Launchpad (EMEA) ([Program](#))
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Case studies

- [OCR Document Automation](#)
- [RAG Assistant](#)