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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.

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## 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).
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## 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.
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**Retrieval systems (RAG)**

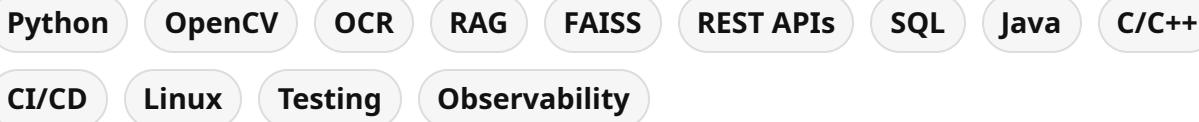
Recent

- 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



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## Education (approved)

University of Cape Town (Computer Science & Computer Engineering)

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## 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](#)