



# Elias Gabriel Matriano

Systems thinker · ML-literate AI product builder

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## PROFILE

Deep AI consumer with substantial ML literacy: parameters, weights, vectors; tokenization & generation math; training practice; dataset factories; pipelines; architectures; model editing (incl. ablation); GPU/hardware intuition. Systems thinking first. Implements mostly via AI coding agents; learns HTML/CSS/Python/Java on demand; reads code when needed. Graphic design (posters) by hand.

## ML & SYSTEMS

- ML concepts · params, weights, vectors
- Token generation math · training practice
- Dataset factories · pipelines · architectures
- Abliteration · model editing · ML terminology
- GPU & hardware literacy · troubleshooting
- Systems & product thinking

## BUILD & DESIGN

- Directing AI coding agents
- Graphic design · posters & visuals
- Reading code when needed
- HTML · CSS · Python · Java (basics)
- Local AI demos (Ollama, RAG, agents)

## EDUCATION

### STI College Lucena

B.S. Computer Science  
2024 – 2028 (ongoing)

### Marcial B. Villanueva NHS

ICT Strand · 2019 – 2024

## LINKS

Portfolio  
www.eliasmatriano.com

GitHub  
github.com/derkaiserelias1

LinkedIn  
linkedin.com/in/elias-gabriel-matriano-54316a315

## SELECTED PROJECTS

### Lumen — Local RAG Chatbot

01

Local-only RAG with explicit retrieval, citations, streaming metrics, and with/without RAG comparison.

- FastAPI + Chroma + embeddings + Ollama/Qwen
  - Inspectable pipeline; demo-ready UI
- github.com/derkaiserelias1/AI\_chatbot

### AI Dungeon Master

02

Structured roleplay with world state, validated StateDeltas, streaming turns, latency inspector.

- React/TS + FastAPI; Claude or local Ollama
  - SSE progress; structured narrative pipeline
- github.com/derkaiserelias1/AI\_roleplayer

### AI Finance Tracker

03

Finance UI with ledger truth and tools-only AI chat that proposes mutations for Confirm/Skip.

- TypeScript · Vite · React
  - Human gate on money-moving actions
- github.com/derkaiserelias1/AI\_finance\_tracker

### Clearpost — Invoice Automation

04

PDF intake → extract with confidence → side-by-side review → export modes.

- Document AI / OCR + review UI
  - Source PDF next to structured fields
- github.com/derkaiserelias1/AI\_invoice\_automation

### Research Agent

05

Plan → act → observe research loop with live inspector, tool budget, cited synthesis.

- Tavily + fetch + local/cloud LLM
  - Full trace: plan, tools, replans, reasoning
- github.com/derkaiserelias1/AI\_agent

## HOW I WORK

Frame the problem → design system & ML path (data, architecture, GPU reality) → implement with AI coding agents → read/fix when needed → ship a local demo → polish visuals and story.

## AVAILABILITY

Open to work · Full-time · Part-time · Fixed term · Freelance  
Lucena City, Philippines