

Angel J. Mencia

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Portfolio Website: angelmencia.xyz

EDUCATION

University of California, San Diego · B.S. Cognitive Science — Machine Learning & Neural Computation March 2026
Machine Learning · Data Science in Practice · Neural Signal Processing · Probability & Statistics · Linear Algebra · Data Structures & Algorithms · Business Analytics

TECHNICAL SKILLS

Agentic AI: Anthropic Claude Code CLI, specialized agent orchestration, MCP integrations, lifecycle hooks, plugins/skills, AI development workflows, validation loops

Predictive AI/ML & Analytics: ML model training/evaluation, gradient boosting, tree ensembles, encoder-based NLP, embedding-based semantic RAG systems, similarity search, anomaly detection, forecasting, SHAP explainability

Software Engineering: Python, TypeScript/JavaScript, SQL, Java, FastAPI, Next.js/React, PostgreSQL, SQLAlchemy, Docker

Data Workflow Automation: Streamlit dashboards, Jupyter experimentation, JSON/Markdown artifact generation, status tracking, correction workflows, stakeholder-facing previews

Generative AI Systems: OpenAI/Anthropic APIs, context-window optimization, prompt routing, structured generation, source-grounded outputs, response validation, AI workflow orchestration

Document Intelligence / Computer Vision: OCR/layout analysis, transformer-based object detection, multimodal parsing, layout reconstruction, visual evidence mapping, evidence-grounded extraction, RAG deploy

Testing / Evaluation Engineering: Jest, Playwright, unit/integration/E2E testing, regression checks, diff/test review, benchmark-style evaluation, failure analysis, output validation

Technical Communication: Technical documentation, requirements translation, workflow demos, evidence-backed reporting, stakeholder review, bilingual English/Spanish communication

EXPERIENCE

Millenia Ventures · **Lead Software Developer**

Jan 2026 – May 2026

Remote · Las Vegas, NV-based

- Led the first iteration of Millenia's AI fundraising intelligence platform; designed and implemented the initial PostgreSQL database for founder records, investor records, source documents, extracted fields, review status, correction states, and fundraising outputs.
- Automated review of 1,000+ founder/company source files by building AI/OCR layout-analysis and validation workflows, reducing manual company review time from 5 hours to 20 minutes through structured JSON extraction, source evidence tracking, and correction states.
- Built an investor-founder matching algorithm that surfaces 50,000+ potential investor candidates for each company using spreadsheet ingestion, third-party business-data APIs, semantic embeddings, hard filters, keyword overlap, and weighted scoring to generate explainable match recommendations.

PROJECTS

Prelegal — AI Document Generator

github.com/AMenxia

Python · FastAPI · Next.js · TypeScript · LiteLLM/OpenRouter · SQLite · SQLAlchemy · Docker · Jest · Playwright · Langchain · RAG

- Built a full-stack LLM document app with authenticated users, chat-driven field collection, structured extraction, template rendering, saved drafts, live Markdown preview, PDF export, Docker deployment, and Jest/Playwright coverage.
- Implemented SQLAlchemy persistence, JWT HttpOnly auth, password hashing, manual-edit workflows, and end-to-end tests across 12 agreement templates.

Document Intelligence Lab

github.com/AMenxia

Python · Streamlit · Docling · OCR/layout parsing · structured extraction · JSON/Markdown/Excel export

- Built a local-first PDF intelligence app that parses documents with Docling into ordered text/table/figure maps, supports item review with crop previews/outlined PDFs, and rebuilds reviewed content into clean Markdown feeds.
- Added table correction, visual review notes, structured extraction, consolidated dossier outputs, and JSON/Markdown/Excel export with in-app preview tables.

Flappy Bird Neuroevolution Simulator

github.com/AMenxia

Python · Pygame · NumPy · matplotlib · simulation · fixed-seed evaluation

- Built a perceptron-style neuro-evolution ML algorithm from scratch that trained a Flappy Bird agent to survive endlessly and achieve immortalization.