

Daniel Kliewer

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[GitHub](#)) | [Website](#) | [LinkedIn](#)

Professional Summary

Highly resourceful **AI Systems Architect** and **Full-Stack Developer** with a proven track record of designing and deploying production-grade **Generative AI** and **Agentic** systems. Expert in **Advanced RAG (Graph + Vector)**, local LLM orchestration (Ollama, llama.cpp), and **Multi-Agent** frameworks (SmolAgents, LangChain). A self-taught technologist who transitioned from housing instability to tech leadership, bringing a unique perspective on **AI alignment, data integrity, and privacy-focused infrastructure**. Adept at leading complex digital transformations by bridging the gap between cutting-edge research and scalable enterprise applications.

Technical Expertise

- **Generative AI & Agentic Systems:** Agentic Workflow Orchestration, SmolAgents, LangChain, Magnetic-One (Graph Orchestration), OpenAI Agents SDK, Multi-Model Agents.
 - **Advanced RAG & Data:** Vector Databases (**FAISS**, **ChromaDB**, **Pinecone**-ready), Graph Databases (**Neo4j**), Knowledge Graphs, Document-Driven Development.
 - **Languages & Frameworks:** **Python** (FastAPI, Django, Flask), TypeScript/Node.js, **SQL**, **Spark** (Distributed Systems), **R** (Statistical Processing).
 - **AI Training & Alignment:** **LLM Fine-tuning** (Gemma, LLaMa), **RLHF** (Reinforcement Learning from Human Feedback), Red-teaming, Bias Detection, Prompt Engineering.
 - **Infrastructure & DevOps:** **Docker**, Kafka, ZooKeeper, Redis Streams, Netlify, CI/CD, Local-first AI Deployment (MPS/CUDA).
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Selected AI & Engineering Projects

Agentic Reddit Blog & News Generator | *Lead Architect*

- Designed a multi-agent system using **Python** and **SmolAgents** to monitor social media feeds, perform multimodal analysis (Image-to-Text), and generate human-aligned long-form

content.

- Implemented **Advanced RAG** using **Neo4j** to maintain state and memory across agentic sessions, ensuring factual consistency.

PersonaGen: Digital Simulacra Engine | *Lead Developer*

- Built a tool to extract granular psychological and stylistic personas from writing samples using **FastAPI** and **SQLite**.
- Engineered a **Vite/React** interface allowing users to adjust persona weights (0-1) for real-time LLM output modification.

Infinite Local Broadcast System | *Lead Developer*

- Developed a 100% local, privacy-first pipeline on a MacBook Pro M4 setup using **Ollama** for text, **ComfyUI** for video, and **EdgeTTS** for audio.
- Optimized inference latency for local environments, demonstrating mastery of the local-first AI stack.

GraphRAG Knowledge Management Platform | *System Architect*

- Architected a **Next.js 16** and **FastAPI** platform integrating **Neo4j** for relationship extraction and **FAISS** for vector similarity search.
- Utilized **Kafka** and **ZooKeeper** for real-time message processing and **Prometheus** for monitoring system health.

Professional Experience

Independent AI Systems Consultant | Austin, TX | 2022 – Present

- Consult with clients on **AI Data Integrity & Bias**, helping startups evaluate the feasibility and scalability of their GenAI products.
- Develop end-to-end **Agentic AI** systems that automate complex data workflows, including a WhatsApp customer support agent using **PydanticAI** and **Supabase**.

Lead Data Alignment Specialist (Contractor) | *Meta, Scale AI, Alignerr, Mercor* | 2023 – 2025

- Executed **RLHF** and red-teaming protocols to train and refine LLMs (GPT-4, LLaMa 3) for safety, coding proficiency, and reasoning.
- Developed custom **Python** scripts to qualify for high-tier technical annotation contracts, specializing in code generation evaluation.

Data & SEO Analyst | *Amazon* | Jan 2010 – Nov 2020

- Conducted deep keyword research and competitive analysis using **SQL** and data mining, increasing search visibility by 40% and organic revenue by 25%.
 - Designed an AI-driven content optimization system that improved conversions by 35%.
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Education & Philosophy

Self-Directed Computer Science & AI Curriculum | 2016 – Present

- Completed intensive coursework in **Linear Algebra** (MIT OCW), **Data Structures**, and **Data Science** (Harvard edX).
- Continuous self-study in **Graph Theory**, **Distributed Systems**, and **LLM Architecture**.

Bachelor of Arts in History/Political Science | University of Mary Hardin-Baylor

Core Philosophy: *"I refuse to pay to vibe code."* A staunch advocate for **open-source, local-first AI development** to democratize technology and ensure data sovereignty.

Community Leadership

- **Founder, r/locollm:** A growing community of 1,000+ developers focused on local AI.
- **Organizer, LoCo Hackathon:** Hosted the first local-LLM hackathon in Austin, promoting self-reliant AI workflows.