

Ziad Ahmed Abdalla

Applied AI Engineer · Available full-time · Remote (EU / US hours) - Contractor

Cairo, Egypt (UTC+2 · EU-hours overlap) - Qatar residence permit, no sponsorship required

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Professional Profile

AI engineer who ships **AI products end-to-end** - retrieval & knowledge graphs, the API and infra underneath, and the UI on top. Built a production multi-tenant RAG pipeline at **AiCentive**; founder of **ZiadBrief** (document AI for M&A advisory).

How I Build with AI

- **Claude Code power user** - custom agent skills, lifecycle hooks, and MCP integrations; autonomous overnight runs that hit a goal and verify their own work.
- **Multi-agent orchestration** - parallel build fan-outs, adversarial review councils (7 AI reviewers + an arbiter), and self-improving agent playbooks.
- **Model routing** - frontier models plan, a mid-tier fleet executes and self-verifies, escalating when a task exceeds a model's skill.
- **Eval-gated development** - nothing merges without a golden-set benchmark plus AI-driven Playwright E2E. *A model is a hypothesis until verified.*

Professional Experience

AiCentive GmbH | AI Engineer

Stuttgart, Germany · Jan - Jul 2026

- Designed and built a **multi-tenant RAG pipeline** turning PDFs into a NebulaGraph knowledge graph (LangChain, Docling, FAISS, SentenceTransformers) - **87x pipeline speed-up** via model optimization (Llama 405B→70B) and async parallel extraction.
- Built the **FastAPI REST layer** (API-key auth, rate limiting, document lifecycle) and a **LangGraph retrieval state machine** with 3-level subgraph expansion; integrated IONOS AI Hub (Llama / Mistral).
- **Migrated Neo4j→NebulaGraph** for per-tenant graph-space isolation; resolved **32 inherited code-quality issues** across 4 repos (Cypher injection, vector-dimension mismatches, secrets in git).

ZiadBrief | Founder

Remote · Apr 2026 - Present

- Building **document AI for mid-market M&A advisory** on EU-only, GDPR-by-design, tenant-isolated infrastructure - source-cited answers for due-diligence data rooms.

Key Technical International | Software Engineering Intern

Doha, Qatar · Aug - Dec 2025

- Built a **Firebase / Firestore backend** (real-time listeners, auth) and a multi-layer cache (localStorage + CDN + edge) reaching **~95% hit rate and sub-10ms loads**.
- Delivered a role-based **admin CMS** with inline editing, drag-and-drop reordering, Cloudinary media management, and a 3D-interactive React SPA.

Key Projects

DocAI - Intelligent Document Processing (Python · FastAPI · Claude API · React · PostgreSQL · Redis · Docker)

- Claude API across 4 domains with **Pydantic structured-output validation (95%+ accuracy)**; Redis caching cut API cost 40%; Docker, GitHub Actions CI/CD, Sentry, pytest >95%.

JobHunt - Local-First Job Aggregator (Python · FastAPI · SQLite · Playwright · SentenceTransformers)

- **26 job-source adapters** (ATS + boards) normalized into one schema; **semantic CV matching** across 3,300+ junior roles; desktop alerts + salary estimator; 607 unit + 11 Playwright E2E tests.

UniVeranstaltungen - Full-Stack Events Platform (React · TypeScript · Node · Express · MongoDB · Stripe)

- 100+ components, 50+ REST endpoints, 20+ schemas; **JWT RBAC (6 roles)**, Stripe webhooks + wallet, QR access passes, certificate & Excel generation.

Also on GitHub: Marketplace Deal-Hunter (embeddings dedup + outlier scoring, Discord alerts) · BountyHunter (autonomous, human-approved bug-bounty intelligence engine, 870+ programs).

Technical Skills

AI / LLM: LangChain · LangGraph · RAG · Knowledge Graphs · FAISS · SentenceTransformers · Claude API · IONOS AI Hub (Llama / Mistral) · Pydantic structured outputs · multi-agent orchestration · eval-gated dev

Programming: Python · TypeScript · JavaScript · Java · SQL · HTML/CSS

Backend / Frontend: FastAPI · Node.js · Express · ASP.NET Core · REST · JWT · React · Angular · Next.js · Tailwind · Vite

Data / DevOps: NebulaGraph · Neo4j · PostgreSQL · MongoDB · Redis · SQLite · Firestore · Docker · GitHub Actions · Playwright · pytest · Git

Education

DHBW Stuttgart | Bachelor Thesis (completed a year early): RAG Architecture for Document Q&A

Jan - Apr 2026

German University in Cairo | B.Sc. Computer Science & Engineering · coursework complete, available full-time *expected Jul 2027*

GPA 1.99 (German scale, ≈ A-) · Partial Merit Scholarship

Languages

Arabic (Native) · English (Native / C2) · German (A2, actively learning)