

Nader Bennour

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SUMMARY

AI & Cloud Engineer with 5+ years of experience building production AI systems, data pipelines, and cloud infrastructure. Currently a Senior AI Engineer building LLM agent systems that automate high-stakes legal workflows, with ownership across agent architecture, evals, and AI infrastructure. Previously a hands-on CTO who shipped an end-to-end document intelligence SaaS (LLM/RAG, vector search) including AWS infrastructure, Docker, and CI/CD. Additional experience building scalable data infrastructure for 30+ blockchain networks (Airflow/ETL, AWS/GCP, monitoring) and delivering enterprise traceability projects.

PROFESSIONAL EXPERIENCE

Senior AI Engineer (LLM Agents & Workflow Automation)

NotarNow

Apr 2026 – Present

Munich, Germany (Hybrid)

Built production **LLM agent systems** that automate notarial workflows end-to-end, covering document analysis, deed drafting, land-registry automation, and structured legal-data exchange.

Designed and deployed multi-agent architectures with tool use, runtime validation gates, and automated retry/self-correction loops for high-stakes legal outputs.

Developed browser-automation agents (**Playwright**) that operate official government portals, including multi-factor authentication flows and stateful session handling.

Built structured-data pipelines for legal interchange formats with XML schema validation and deterministic import/export against strict third-party specifications.

Delivered full-stack features across **Python/FastAPI** backend, **Next.js** frontend, **MongoDB**, **AWS** infrastructure, and Office add-in integrations.

Established evaluation harnesses and regression testing for AI outputs; improved production reliability through log-based triage of live agent behavior.

Co-Founder & CTO (Software Engineering, AI & Cloud)

AI-RE UG (haftungsbeschränkt)

Oct 2023 – Mar 2026

Munich, Germany

Hands-on CTO acting as lead engineer: built the product from prototype to production (backend, data, cloud, LLM pipelines) for 2 pilot customers and 10 users.

Built document ingestion and ETL pipelines for PDFs/images/structured data including parsing, validation, storage, and production-grade error handling.

Designed and deployed LLM-powered RAG (Retrieval-Augmented Generation) pipelines for semantic search and document Q&A; extraction confidence ~90%.

Reduced inference latency from ~50s to ~3s via prompt engineering, caching strategies, and pipeline optimization.

Developed scalable microservices and REST APIs with **Python/FastAPI** including authentication, logging, and security baselines.

Built cloud-native infrastructure on **AWS** (S3, EC2, Lambda, IAM, VPC) with a focus on reliability, cost awareness, and operational security.

Containerized services with **Docker** and automated build/test/deploy through **CI/CD (GitHub Actions)**.

Delivered frontend-adjacent product features and admin views using **React/Next.js**, iterating based on customer feedback and UX needs.

Implemented observability (monitoring, metrics, logging, alerting) for stable production operations and pilot rollouts.

Led and mentored a 5-person team; established engineering standards, code reviews, and delivery processes.

Secured €135k in non-dilutive funding (**EXIST**, **AI+ Munich**) and shipped multiple pilot iterations driven by customer workflows.

Cloud & Data Engineer (Data Pipelines & Distributed Systems)

Orbal GmbH (growthepie.xyz)

Jul 2023 – Sep 2025

Remote

Built and operated scalable data infrastructure for **30+ EVM L2 chains** with a focus on reliability, automation, and data quality.

Designed and implemented **ETL/ELT** pipelines for on-chain ingestion, transformation, validation, and analytics-ready datasets.

Developed production **Apache Airflow** DAGs for scheduling, backfills, anomaly detection, and data QA checks.

Deployed and operated high-availability node/RPC infrastructure on **AWS** and **GCP**; improved sync reliability and multi-network endpoints.

Implemented fault tolerance (RPC rotation, load balancing, retries) for distributed systems.
Built monitoring/alerting and incident automation (incl. Discord bots) for pipeline failures, node health, and RPC latency spikes.
Contributed to internal dashboards and analytics tooling with **Next.js/TypeScript**; shipped stakeholder-facing features.

Blockchain Developer (Digital Product Passport)

May 2024 – Aug 2024

Deloitte

Munich, Germany

Built a Battery Digital Product Passport proof-of-concept to track lifecycle events across the supply chain (manufacturing to recycling).
Translated EU requirements into a traceability data model; implemented tamper-evident event tracking on blockchain.
Evaluated enterprise blockchain options (Polygon, Hyperledger, XDC; public vs. private) for compliance, scaling, and governance.
Developed and deployed smart contracts and integrated them into a **React** frontend for demos and testing.
Delivered technical demos to stakeholders; PoC selected for further development.

Data Engineer (LLM & Blockchain Analytics)

Oct 2022 – Jun 2023

Blockbrain GmbH

Remote

Built an LLM-powered assistant with multi-user chat, context management, and admin dashboards (**Python/Flask, OpenAI API**).
Developed backend services for prompt handling, conversation storage, and context retrieval with production-style logging and error handling.
Developed AI models for fraud detection (e.g., fake follower detection) using metadata and behavioral signals.
Built Ethereum monitoring and data pipelines using archive nodes and **PostgreSQL** for analytics and security use cases.
Implemented a **Golang** smart-contract auditing tool to automate security checks.
Bachelor thesis: AI system for detecting malicious NFT smart contracts; feature engineering and model evaluation.

Software Engineer (Backend Systems)

Oct 2021 – Sep 2022

LexCom Informationssysteme GmbH

Munich, Germany

Developed and maintained scalable Java backend components for automotive after-sales systems (service and warranty workflows).
Built and maintained REST services; performed performance optimizations and bug fixes to improve reliability and throughput.
Collaborated in agile Scrum sprints with product and QA; contributed to reviews and stable production releases.

Website Manager & SEO Specialist

Oct 2020 – Oct 2021

NFON AG

Munich, Germany

Owned CMS content operations and technical SEO (metadata, structure, on-page hygiene) for corporate website and partner portal.
Improved organic visibility through keyword research, content optimization, and localization across European markets.
Tracked performance KPIs via analytics and supported content distribution via social channels to increase engagement.

PROJECTS

FSH AI Health Assistant

2024

Clinical AI Assistant

FastAPI, Docker, WordPress, NCBI-dbSNP

Multi-agent health assistant (genetics, blood, nutrition) supporting PDF/Excel/JPG uploads; GDPR-oriented encryption and 75% token cost reduction.
Integrated user-facing flows (React/Next.js) including uploads, results views, and iterative UX improvements.

eth-validator-api

2024

Ethereum Validator Telemetry API

Go, REST

REST API serving validator metrics for monitoring staking rewards and sync committees.

pharmaai-advisor (PharmaGPT)

2024

Pharmacy AI Assistant

Python, LLMs, FastAPI

LLM-based assistant for drug interaction recommendations using a RAG architecture.

EDUCATION

Technical University of Munich (TUM) <i>B.Sc. Computer Science</i> Focus: AI Systems, Cloud Computing, Information Security Thesis: "Early Identification of Security Issues in Decentralized Finance"	Munich, Germany 2018 – 2025
ATHENS Programme – Mines Paris (PSL) <i>International Exchange</i>	Paris, France Mar 2024
Project Analyst, Circular Republic Tech Challenge <i>UnternehmerTUM</i> Co-designed ReWearAI: mobile workflow for second-hand apparel intake (label OCR, size detection, condition assessment, pricing). Led market research, defined KPIs, produced prototype and specs; presented to the Circular Republic jury.	Munich, Germany Apr 2024 – Sep 2024

SKILLS

AI & Machine Learning: Large Language Models (LLMs), LLM Agents & Tool Use, Multi-Agent Architectures, Retrieval-Augmented Generation (RAG), Prompt Engineering, Evals & Evaluation Harnesses, NLP, LangChain, LlamaIndex, Anthropic API, OpenAI API, PyTorch, TensorFlow, scikit-learn, Vector Databases (Qdrant, Milvus), MLOps (MLflow, Airflow)
Cloud Technologies: Amazon Web Services (S3, EC2, Lambda, IAM, VPC), Google Cloud Platform
DevOps & CI/CD: Docker, Kubernetes, Terraform, CI/CD (GitHub Actions), Git, Linux, Browser Automation (Playwright)
Security & Monitoring: Security baselines, Observability, Monitoring & Alerting, Prometheus, Grafana, Logging
Data Engineering: ETL/ELT, Data Pipelines, Apache Airflow, Data Lakes, PostgreSQL, Redis, MongoDB, SQL, Distributed Systems
Programming: Python, Golang, Java, JavaScript/TypeScript, Bash
Backend & APIs: FastAPI, Flask, Node.js, REST, GraphQL, gRPC, Microservices
Frontend & UI: React, Next.js, TypeScript, Tailwind CSS, shadcn/ui, Component Libraries, Responsive UI
Blockchain: Solidity, Smart Contracts, Ethereum, Web3, Indexers, Validator Telemetry, Traceability Systems

CERTIFICATES

AI+Munich Batch #9 (Munich Innovation Ecosystem, Jul 2024 – Jan 2025)
Learning AI Through Visualization (Columbia+, Jun 2025)
Smart Contracts & Blockchain Basics (University at Buffalo, Jul 2022)
Introduction to Git & GitHub (Google, Nov 2020)
AWS Solutions Architect & GCP Data Engineer (In progress)

LANGUAGES

German (C1), English (C1), French & Arabic (Native), Spanish (A2)
