

Nader Bennour

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SUMMARY

AI & Cloud Engineer with 4+ years of experience building production AI systems, data pipelines, and cloud infrastructure. Most recently, I served as a hands-on CTO and 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. Open to AI Engineering, Cloud, Data, or Backend roles with high ownership and production impact.

PROFESSIONAL EXPERIENCE

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

Oct 2023 – Feb 2026

AI-RE UG (haftungsbeschränkt)

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)

Jul 2023 – Sep 2025

Orbal GmbH (growthepie.xyz)

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) Munich, Germany
B.Sc. Computer Science 2018 – 2025
Focus: AI Systems, Cloud Computing, Information Security
Thesis: "Early Identification of Security Issues in Decentralized Finance"

ATHENS Programme – Mines Paris (PSL) Paris, France
International Exchange Mar 2024
Project Analyst, Circular Republic Tech Challenge Munich, Germany
UnternehmerTUM Apr 2024 – Sep 2024
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.

SKILLS

AI & Machine Learning: Large Language Models (LLMs), Retrieval-Augmented Generation (RAG), Prompt Engineering, NLP, LangChain, LlamaIndex, 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

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)