Abdullah Abdelrazek

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PROFILE

CTO and co-founder who took an AI product from first prototype to paying public sector clients. Owns architecture, infrastructure, security and compliance, hiring and team process, and the AI systems at the core of the product. Builds the automation that lets a five person team ship like a larger one.

EXPERIENCE

Co-Founder and Chief Technology Officer, KLAO GmbH klao.eu

June 2024 to present · Würzburg, Germany

- Technical owner of a Leichte Sprache (Easy German) translation platform for public institutions, shipped as a web tool and an API and in use at the Stadtschulamt Frankfurt am Main, the Landratsamt Starnberg, the University of Würzburg and several municipal museums.
- Own the AI stack: language model fine tuning and evaluation for translation into the DIN register, retrieval, and the pipeline that takes a source document through translation and human review to a certified text.
- Designed and run the production architecture on AWS: containerised services behind an application load balancer, autoscaling on load across multiple availability zones, a queue with background workers for the heavy jobs, a CDN at the edge, and blue green deploys so releases go out without downtime. Infrastructure as code and CI/CD throughout.
- Own the security posture of the platform and GDPR compliance through privacy by design.
- Recruited and lead a five person team across frontend, backend, QA, design and a staff engineer. Set the engineering process, review standards and communication flow.
- Wrote the technical sections of a public funding application, including risk assessment.
- Technical counterpart for clients' engineering teams during API integration and feedback.

Applied AI Research and Development, THWS

Center for Artificial Intelligence and Robotics (CAIRO) · June 2024 to August 2025 · working student alongside master's

- Worked on industry collaboration projects run by the university with external partners, where the same project had to produce a research result and something that actually ran.
- Built a retrieval augmented generation system over technical documentation for a bearing manufacturer, extracting searchable knowledge from text, images, tables and video, with a chat interface and an administration interface for documents and access.
- Applied computer vision to assess construction materials against industry standards and automate the calculation of test results.

Teaching Assistant

Misr University for Science and Technology, Egypt · October 2023 to March 2024

- Tutorials and lab sessions in artificial neural networks and C++.

Security Research and Penetration Testing

Freelance and SeeCureApp · 2020 to July 2022

- Reported vulnerabilities through bug bounty programmes, including those run by Uber, IBM and HackerOne.
- Penetration tester at SeeCureApp from February to July 2022, running application and network security assessments with written findings and remediation guidance.

FUNDING AND RECOGNITION (KLAO)

- EXIST Gründungsstipendium, federal startup grant
- Media Lab Bayern Media Startup Fellowship, followed by the Scale Up programme
- First place at the Welt:Ethik Pitch Day 2025 (University of Würzburg). Social Entrepreneurship Award at the Deggendorfer Gründungspreis 2025. Jury Award at the Social Impact Award 2024. Second place in the Flight Programme 2024.
- Nominated for the Sozialer Innovationspreis at ConSozial 2025 and awarded an honourable mention for the Annedore-Leber-Preis 2026, both for accessibility work.

SELECTED PROJECTS

Vylara, infrastructure from code vylara.ai

Side project · June 2026 to present

- An agent based tool that reads an application repository, designs the infrastructure architecture the code actually needs, and provisions it on AWS, including identity and access, networking, compute, secrets and the deployment pipeline.
- Side project to go deep on DevSecOps, product positioning and reaching the right customers.

Gradian, training data attribution for fine tuned language models gradian.dev

Sole author · open source under Apache 2.0

- Traces a regression in a fine tuned model back to the training examples and configuration choices that caused it, and catches silent faults that never appear in the loss curve. Built after one too many rounds of guessing.

EDUCATION

Master of Science, Artificial Intelligence

Technical University of Applied Sciences Würzburg-Schweinfurt (THWS), Germany · March 2024 to October 2025 · Final grade 1.8

- Thesis on fine tuning large language models for Easy German (Leichte Sprache). In an expert evaluation the system scored well above the models it was compared with, above all on meaning preservation.
- Invited speaker, MAI Invited Speakers series at THWS, May 2026: "From MAI to CTO: Building AI Products That Actually Work".

Bachelor's degree, Computer and Software Engineering

Misr University for Science and Technology, Egypt · September 2019 to July 2023 · Final grade 1.7

SKILLS

Architecture and infrastructure	AWS, Docker, Kubernetes, load balancing and autoscaling, queues and background workers, CDN, blue green deploys, infrastructure as code, CI/CD, cloud security and least privilege, GDPR by design
AI and machine learning	LLM fine tuning and evaluation, LoRA and PEFT, retrieval augmented generation, PyTorch, Hugging Face, gradient based attribution
AI agents	LangChain, LangGraph, OpenAI Agents SDK, Claude Agent SDK, multi agent workflows in production, tool use and function calling, workflow orchestration with n8n
Engineering	Python, TypeScript, C++, SQL
Team and process	hiring, engineering management, process design, review and incident processes
Security	penetration testing background, application security

LANGUAGES

English	Fluent, written and spoken
German	A2, improving