



# Dr. Martin Kaiser

AI/ML Engineer

Berlin, Germany

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## Profiles

[martin-kaiser-ai](#)

LinkedIn

[kaiser-data](#)

GitHub

## Technical Skills

### Programming Languages

Python (expert), SQL, Bash,  
JavaScript (basic)

### Backend Development

Flask, FastAPI, REST API Design,  
async Python, Pydantic,  
authentication & authorization  
(JWT/OAuth2/RBAC)

### Databases / Vector-Databases

PostgreSQL, Qdrant

### Cloud & Infrastructure

Docker, GitHub Actions (CI/CD),  
Linux, Terraform, Ansible, AWS,  
Azure

### Generative AI & LLM Solutions

LLM into backend, RAG pipelines,  
prompt/context engineering,  
finetuning

### Development Practices

Git/GitHub, DevOps, ORM, OOP

AI/ML Engineer and physicist with 8+ years of programming experience, including 5+ years of Python development and 3 years in AI/ML. Recently completed DevOps training to strengthen cloud infrastructure skills. Driven to be part of teams building production-grade applications that solve real-world problems. Excel in fast-paced environments, taking ownership of challenges while contributing to collective team success.

## Experience

### JENLY.AI

Apr 2025 - Jul 2025

Generative AI Engineer (Intern) - Remote

Mannheim, Germany

<https://jenly.ai/>

- Crafted high-quality prompts for an Azure-based document-generation system in the life-sciences domain, achieving 80% expert content alignment.
- Developed a backend-powered evaluation platform to assess LLM output quality using NLP metrics, and parameter looping through different RAG configurations.
- Built a multistep LLM-workflow coordinating rule extraction, structured JSON creation, code execution, and LLM-as-a-judge based validation.

### The Federal Institute for Material Research and Testing (BAM)

Mar 2023 - Sep 2024

Berlin, Germany

CTO & Software Engineer

[Press Release](#)

- Built backend data-processing pipelines for sensor analytics, achieving ~100% detection accuracy through noise-drift correction and automated extraction of 50+ features from 1,000+ measurements.
- Created a local database and automated ingestion workflows to organize and standardize sensor data, improving accessibility and eliminating manual processing.
- Contributed to the project's Top-10 placement in the Berlin-Brandenburg 2024 Business Plan Contest through concept development, market design, and milestone planning.

### Rheingau Gymnasium

Jan 2018 - Aug 2018

High School Teacher, Physics and Mathematics

Berlin, Germany

### The Federal Institute for Material Research and Testing (BAM)

Jul 2011 - Sep 2014

Berlin, Germany

Scientist

- Automated an optical measurement setup and data-analysis routines, increasing processing speed by a factor of 1,000 compared to manual workflows and enabling rapid identification of material performance indicators for new biomarker development.

Soft Skills

Data-Driven Problem-Solving

Effective Teamwork

Proactive Communication

Certifications

Software / AI Engineering

Masterschool

May 2025

[Certificate](#)

Machine Learning

Deep Learning AI, Coursera

Sep 2022

[Certificate](#)

Data Science

Stackfuel GmbH

May 2022

[Certificate](#)

Awards

2025

Distributed AI Hack Berlin

Open Track, 2nd Place

[LinkedIn Post](#)

NEAR AI Hackathon

Shade AI-Agent Category, 1st Place

[Project Page](#)

AI Hardcore Hackathon

LLM Prediction Latency/Cost Category, 1st Place

[LinkedIn Post](#)

Masterschool Student Hackathon

SMS-Service, 1st Place

[Wolves of Wall Street-App](#)

2024

Business Plan Contest TOP 10

BPW Berlin-Brandenburg

[Press](#)

Languages

German

Native

English

C1

Projects

MasterSpeak-AI

May 2025

Web-Based Generative AI Application

[GitHub](#)

*Python, FastAPI, OpenAI API, Pydantic, Streamlit*

- Built a FastAPI backend handling speech analysis requests, scoring logic, and structured responses using Pydantic models.
- Integrated LLM capabilities for text evaluation and feedback generation, serving results through a lightweight Streamlit frontend.

MasterBlog

Feb 2025

Full-Stack Chess Blog Application

[GitHub](#)

*Flask, JavaScript, HTML/CSS, Marshmallow, Flask-CORS*

- Developed a RESTful API with CRUD operations, search, pagination, rate limiting, schema validation, and Swagger documentation.
- Implemented authentication, data validation, and a responsive frontend, enabling smooth interaction with the backend blog service.

Education

IronHack

Oct 2025 - Dec 2025

DevOps Engineer (Bootcamp)

Remote

[Website](#)

Intensive 9-week bootcamp on AWS, Azure, CI/CD, Kubernetes, and modern DevOps practices to strengthen my cloud infrastructure skills.

Masterschool

Sep 2024 - Jun 2025

Software & AI Engineering

Remote

[Website](#)

- 1600-hour Software and AI Engineering program combining broad software engineering knowledge with a focused AI engineering specialization through hands-on projects

Technical University of Berlin

Jun 2011 - Dec 2020

PhD, Experimental Physics

Berlin, Germany

Magna Cum Laude

[Scientific Publications Overview](#)

Volunteering

Toastmasters Club - Berliner Rhetorikmeister

Nov 2024 - Present

Vice President Public Relations

Berlin, Germany

[Homepage](#)

Chessclub Weisse Dame e.V.

Oct 2021 - Jun 2025

Chess Club Organizer

Berlin, Germany

[Homepage](#)