

Alexander Pieper

Backend & AI Engineer

WORK EXPERIENCE



Co-Founder & CTO

Sep 2025 – present

Ivelion Health GmbH, *Berlin*

Healthcare AI startup for clinical trials, EXIST-funded. End-to-end owner of product and tech. Built Rudi, an AI patient recruitment platform in neurology and dermatology: ~10 clinics, 1,000+ user chats. Production LLM and RAG features (Anthropic, OpenAI) with Langfuse tracing. Python, TypeScript, Docker and Kubernetes on AWS. Led the ISO 27001 implementation and GDPR compliance.



Backend Engineer

Oct 2023 – Oct 2025

YUKKA Lab AG, *Berlin*

NLP platform analysing ~2M news articles per day in real time. Built and maintained Python-based REST APIs and data pipelines for client-facing products. Led AI features from concept to production: newsletter, trading signals, ESG reporting. Designed client scoring systems.



Data Scientist (Working Student)

Oct 2020 – Sep 2023

YUKKA Lab AG, *Berlin*

Built and ran Python-based REST APIs on a distributed SQL stack with scheduled ingestion. Developed financial signals and prototyped trading strategies (style factors, overlays) from news analytics.



Student Research Assistant

Jun 2020 – Sep 2021

HTW Berlin, *Berlin*

Research project with professors from HTW Berlin and Fraunhofer ITWM. Implemented their modelling ideas in R and Python: Hidden Markov Models and LSTM networks for European credit spread prediction. Analysed the results and co-authored the published paper "Regime-switching LSTM model for credit spread predictions."

EDUCATION



Master of Science in Computational Science

Oct 2021 – Oct 2023

University of Potsdam, *Potsdam*

Focus: Data Science, AI, ML, Distributed Systems, Optimization.

Thesis: Product configuration with Answer Set Programming (clingo). Final grade: 1.6



Bachelor of Science in Business Mathematics

Oct 2017 – Aug 2021

HTW Berlin, *Berlin*

Focus: Analysis, Statistics, Financial Modelling, Data Science, Machine Learning.

Thesis: An LSTM model for portfolio optimization using sentiment. Final grade: 1.3

PROJECTS

Products I designed and built on my own. More at alexpieper.com/projects.



MentalBuddy.AI

SaaS Platform, *Web*

Mental health companion on a real-time voice-to-voice AI API.



Any2Text.AI

SaaS Platform, *Web*

AI text extraction for PDFs, images, audio and video.



ChessBuddy.AI

AI Chess Coach, *Web*

Chess engine plus generative AI coaching; full stack incl. payments. 100+ active users incl. paying subscribers.



Personal

Alexander Pieper

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About me

Software engineer with 6+ years building production Python backends, data pipelines and AI products. Focus: LLM applications, RAG and robust Python services, built to scale with security and observability in mind. I believe in AI-assisted engineering, while knowing its limits.

Languages

German Native

English Proficient (C2)

French, Spanish Basics (A1)

Technologies

Python / FastAPI / SQL
TypeScript / React / Next.js
Node.js / NoSQL / R
AWS / GCP / Docker / K8s
ISO 27001 / GDPR

AI Tools

Claude Code / Codex / Cursor
Anthropic / OpenAI / Gemini
RAG / LangChain / Langfuse