

CV

Maximilian Fischer, AI Engineer

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Positions

since 07/2025

AI Engineer, Mid-sized meat industry group, three sites

- Built and lead the group's AI team of four people, reporting to the management board. Responsible for governance, data quality and the introduction of AI across the group.
- Designed, built and operate the internal forecasting and planning platform as the sole developer, from concept to production.
- Replaced manual demand planning with forecasts that drive purchasing and production, measured against the previous-week carry-forward.
- AI assistant with access to the platform data on a locally run language model, plus a news early-warning system that condenses about 20 sources into a market picture.
- Introduced Microsoft 365 Copilot in administration with a training programme and documented use cases in the departments.
- Replacing the group's central integration platform, rebuilt on Python and Dagster with parallel run and cut-over day.

05/2023 to 05/2025

Sabbatical, Hawaii

- Digitised a dive shop: developed a point-of-sale, finance and inventory system as a web application.
- PADI Dive Master: leading international groups, risk management and decisions under pressure in a safety-critical environment.
- Hence the name of this site: Nalu is Hawaiian for wave.

09/2022 to 03/2023

BI Data Analyst, Revenue Development, E.ON Energie Deutschland GmbH, Munich

- Automated quality assurance for regulatory price-adjustment letters and contract-level procurement costs in the pricing process.
- Designed an initial-margin report for value steering of the commodity portfolio.

11/2018 to 10/2019

Data Analyst, Digital Analytics (working student), Payback GmbH, Munich

- Designed and implemented automated data pipelines for monitoring coupon campaigns.

06/2016 to 10/2018

Process and Customer Management, Operations (working student), eGym GmbH, Munich

- Developed and improved a natural-language chatbot to automate customer support.

Education

graduated 2022

Bachelor of Science, Physics, Ludwig-Maximilians-Universität München, focus on theoretical physics, minor in meteorology

Thesis: Validation of high-frequency LIDAR sensor data under meteorological influences using non-commercial UAS systems (Python-based signal analysis).

Skills

Leadership and steering	Team building, Roadmaps, Decision papers for management, Prioritisation, Release ownership, Training programmes, Scrum, Kanban
Governance and security	Access concepts (RBAC), Protection needs analysis, GDPR (records of processing, TOMs), EU AI Act, Entra ID, Microsoft 365 administration, Audit logging, Secrets management
ML and AI	LightGBM, scikit-learn, Temporal Fusion Transformer, Time series forecasting, Backtesting, Calibration, Anomaly detection, Customer segmentation, Churn detection, MLflow, RAG, Embeddings, Local language models (Ollama, LM Studio), LLM tool use, Microsoft 365 Copilot, AI-assisted development (Claude Code)
Data engineering	ETL/ELT, Dagster, SAP R/3 (RFC), Microsoft Graph API, PyODBC, PyArrow, Polars, Pandas, NumPy, Data quality checks
Programming	Python, SQL, PowerShell, TypeScript, JavaScript, HTML, CSS, FastAPI, Flask, Pydantic, SQLAlchemy, React, Vite
Databases and storage	Microsoft SQL Server, PostgreSQL, DuckDB, SQLite, Parquet, Qdrant, Databricks
BI and visualisation	Power BI, Recharts, Matplotlib, Altair
Infrastructure and operations	Linux, WSL, Docker, Nginx, Git, GitHub Actions, Azure DevOps, Prometheus, Grafana, OAuth2 (SSO), Windows Server
Languages	German (native), English (C2)

Case studies

What stands behind the positions, with numbers and measurement:

- Forecasting platform: sole developer from the first line to daily operation (nalu-ai.com/en/case-studies/forecasting-platform/)
- Forecast accuracy, shown honestly (nalu-ai.com/en/case-studies/forecast-accuracy/)
- Data platform in operation (nalu-ai.com/en/case-studies/data-platform/)
- Replacing an integration platform (nalu-ai.com/en/case-studies/integration-platform/)