

Fabian Wörenkämper

Senior Full Stack Data Scientist @ Krombacher

End-to-end owner of AI products — from **AWS** and **Databricks** through ML/GenAI services to **live iOS apps in the App Store**. Forecasting, classification, root cause analysis and MLOps, accelerated by **agentic AI development** with Claude Code.



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14+ yrs

engineering, simulation & data science

3

apps shipped to the App Store, end-to-end

-80%

document-processing cost with Textract + Bedrock

10+

side projects live — apps, club tools, data pipelines

01 EXPERIENCE

- 2026 — now **Senior Full Stack Data Scientist** PROMOTED 01/2026 Krombacher · KSA
- **Current project:** data-driven root cause analysis in bottling (filling lines)
 - Driving adoption of agentic AI development workflows (Claude Code: skills, hooks, MCP servers, sub-agents) to accelerate AI delivery
 - Continued technical lead for AWS- and Databricks-based ML and GenAI services
- 2022 — 2025 **Data Scientist** Krombacher · KSA
- Full stack data science on classification and forecasting; AWS infrastructure as code (OpenTofu, Serverless Framework)
 - Databricks platform with Unity Catalog, Delta Lake and Workflows for production ML pipelines
 - Klippa-replacement PoC with AWS Textract + Bedrock (Claude 3.5 Sonnet), evaluated with Deepeval; led two students — **-80% cost** **+16% detection quality**
- 2020 — 2022 **Data Scientist** Bosch Rexroth · Big Data & Simulation
- Development and AWS migration of ODin (predictive maintenance); dashboards and data visualization with Python
- 2016 — 2020 **PhD Student** Bosch Rexroth · CoC Fluid & Structural Mechanics
- Multi-domain optimization workflows for valve housing design; lifetime computation tool in C++ with university partners
- 2012 — 2016 **Development Engineer** Bosch Rexroth · Valve Development

02 EDUCATION

- 2016 — 2020 **PhD in Simulation Methods** Bosch Rexroth
- 2006 — 2012 **Dipl.-Ing. Computational Engineering Science** RWTH Aachen
- Combustion & fluid mechanics · diploma thesis **1.3** on valve-housing optimization with evolutionary strategies

03 TALKS & PUBLICATIONS

- 02/2026 **Podcast guest — Data Science Deep Dive #88 (INWT)**
- „Anomalie-Erkennung im Loyalty-Programm bei Krombacher“ — trust-score modelling with Isolation Forest on Databricks: catching fraud without penalising honest power users

04 STACK

Languages

Python SQL TypeScript Swift

Cloud & Infra

AWS Bedrock SageMaker OpenTofu Docker Railway Cloudflare

Data & ML

Databricks PySpark MLflow scikit-learn PostgreSQL InfluxDB

Apps

FastAPI HTMX React Native SwiftUI

AI & Agentic Dev

Claude Code MCP Anthropic OpenAI Deepeval

05 LANGUAGES

German native English fluent Spanish basic French basic

06 SELECTED PERSONAL PROJECTS

Built and run end-to-end in my spare time — product, backend, infrastructure and operations. More at faffi.cloud/projekte.

mAI Whisky & mAI Wine

● App Store · 2026

Two iOS apps on one shared backend — [maitasting.app](#)

- Vision-LLM label recognition: photo in, bottle with brand, region and vintage in the collection; notes become flavor radar charts
- Monorepo with ~80% shared UI; one FastAPI backend on Railway EU serves both apps

FastAPI

React Native

PostgreSQL

Railway

Vision LLM

Drink-Booking iPad App

● App Store · 2026

Kiosk app replacing the paper tally list at the TC Blau-Weiß club bar

- Select member or tap NFC, pick drink — done
- Multi-iPad sync via CloudKit, monthly export for the treasurer

SwiftUI

SwiftData

CloudKit

NFC

TC Blau-Weiß Club Suite

● Live · 2026

Digital toolkit for my tennis club — [tc-bw-attendorn.de](#)

- WordPress → Hugo + DecapCMS, \$0 hosting; results synced from nuLiga, an LLM agent turns board e-mails into pull requests
- Winter-round web app, Medenspiel lineup planner, social-media graphics generator

Hugo

FastAPI

HTMX

Cloudflare

LLM agent

Kinderbasar Biekhofen

● Live · 2026

Ops platform for a kindergarten flea market — [basar.faffi.cloud](#)

- Registration with waitlist, offline-capable checkout, per-seller settlement as PDF/CSV
- Dry-run mode for the organising team; 495 tests

FastAPI

PostgreSQL

HTMX

Railway

NarrActive

● Archive · 2023 – 25

AI picture books starring our own kids

- One prompt in: story in ten chapters, an illustration per chapter, narration with a cloned voice
- My first app combining text, image and speech generation

Streamlit

GPT-4

DALL·E 3

ElevenLabs

DuckDB

Smart Home & Data Lab

● Self-hosted · 2024 –

Self-hosted on a Synology NAS — also: smart-plug event detection, Doppelkopf analytics

- Next-day solar-surplus forecast: RandomForest on DWD ICON weather, morning push with the best hours to run appliances
- Home Assistant wall display: calendar plus to-dos scraped from the Sdui school app

Python

InfluxDB

Grafana

Home Assistant

DuckDB

Docker

07 ABOUT ME

Husband, father of a 6-year-old daughter and a 4-year-old son — by far the most important part of my life. Beyond that: unapologetically cheerful, allergic to consensus theatre, and convinced the best ideas show up in a kitchen, on a tennis court, or somewhere over a pint — not in a status meeting. I would rather ship a rough POC tonight than read another hype-driven framework review tomorrow.

08 HOW I WORK

Ship over spec

Own the full stack

Honest tech opinions

Curiosity over hype

Family first, always

09 OFF THE CLOCK

Bundesliga matchdays

Tennis · TC Blau-Weiß

Cooking for friends

Krombacher field-testing

eSports