Timo Bohnstedt CV
GenAI Solution Architect and Senior Data Scientist

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Senior Data Scientist and GenAI Solution Architect specializing in the design and delivery of enterprise-grade Generative Artificial Intelligence solutions on Azure and Databricks. I translate business requirements into secure, governed, and production-ready GenAI architectures, covering the full lifecycle from evaluation and proof of concept to large-scale operation with measurable business impact.

Since the adoption of large language models in enterprise settings, I have worked hands-on with core GenAI patterns such as retrieval-augmented generation, agent-based systems, and prompt orchestration, while contributing at an architectural level to platform design, standards, and operating models. My background across multiple industries and roles has resulted in a strong T-shaped profile, combining deep GenAI and data science expertise with broad experience in cloud-native distributed as well as on-premise systems.

EXPERIENCE

Senior Data Science Consultant, Erste Group, Vienna   09.2023 - present

- Designed and implemented an AI platform on Azure and Databricks, deployed across five Central European countries, serving daily 7,000 users and 164 use cases.
- Delivered eight GenAI use cases (four in production), including retrieval-augmented generation (RAG) chatbots, knowledge extraction, and few-shot classification.
- Improved message routing accuracy from 40% to 95% and reduced time-to-market from one year to one month.
- Achieved 88% retrieval accuracy and 70% user satisfaction for a group-wide RAG use case serving 3,000 daily active users.
- GenAI Solution Architecture Responsible for evaluation of new use-cases architectures in alignment with current governance, security and platform architecture guidelines.
- Lead of the Working group around Agent DevOps as group wide activity (CEE) with the objective to set guidelines around Operations, Agent to Tool (MCP) and Agent to Agent Communication.
- Managed a team of three data scientists and three interns as technical Product Owner, defining milestones, budgets, and objectives and key results (OKRs).
- Delivered AI engineering training across Central Europe and represented Erste Group at Databricks events in Zürich and San Francisco in collaboration with the Chief

Data Science Analyst, Accenture**,** Vienna   03.2022 - 08.2023

- Built a data lake business layer with Azure Synapse, PySpark, and Databricks for an infrastructure client, enabling multiple data marts and analytical use cases.
- Secured second place at an international GenAI hackathon with 300 participants.
- Contributed to the GenAI Expert Group, delivering field engineering and presentations to financial and industrial clients.
- Served as interim stream lead, planning and prioritizing project tasks using Jira and Confluence.

Machine Learning Engineer, Working Student, Siemens Healthineers*,* Erlangen   02.2021 - 02.2022

- Contributed to the developed of a machine learning framework based on open-source Python projects, serving as a model factory for predictive maintenance applications.

Data Analyst, Working Student, Siemens Mobility*,* Erlangen   01.2020 - 01.2021

- Designed dashboards and performed business analysis with Spotfire for railway and infrastructure components.

Software Engineer, Working Student**,** Team Bank   10.2018 - 07.2019

- Migrated a landing page from Typo3 to a centralized technology stack (PHP, WordPress).

Software Engineer, Working Student**,** DATEV eG   02.2017 - 09.2019

- Built and maintained an automated integration testing framework on the .NET framework, including C# components and Test Manager integration.

Academic Assistant , Working Student**,** DATEV eG   11.2016 - 01.2017

- Supported a research project on heuristic optimization methods for infrastructure planning.

Training as Office Management Assistant, Training (Azubi), SELLBYTEL Group**,** DATEV eG   09.2010 - 07.2013

- Completed a three-year German apprenticeship in business administration and accountancy

EDUCATION

Computer Science M. Sc, Friedrich Alexander University Erlangen Nuremberg,   03.2020 - 03.2024
- Thesis: Determining the influence of papyrus characteristics on fragments retrieval with deep metric learning
- Completed 105 out of 120 ECTS credits (4 Courses Missing)
- Studies interrupted due to post-COVID related onsite attendance requirements conflicting with residence in Vienna; currently on hold without planned resumption.

Computer Science B. Sc., City University of Hong Kong,   08.2019 - 12.2019
- Exchange semester during my B.Sc. at the Nuremberg Institute of Technology.
- Courses: Machine Learning and Data Engineering

Information Systems B. Sc., Nuremberg Institute of Technology, Bachelor of Science   10.2016 - 11.2021
- Thesis: Automatic image recognition in upload filters - computing of transparent decisions (XAI), with the help of Deep Learning methods

A-Level (Matura) with Major, BOS (HTL in Austria) Nuremberg,   09.2013 - 08.2016

COURSES AND CERTIFICATIONS

The Power MBA 2021

Online MBA with a focus of entrepreneurship

Databricks Generative AI Engineer Associate 2024

Fundamentals of AI Engineering with *LangChain*

Azure Solution Architect 2023

SME for designing cloud and hybrid solutions

INTERESTES

Bouldering, Cycling, Running, Cooking, Reading fictional and non-fictional books