Matthias **Bachfischer**

CURRICULUM VITAE

Munich, Germany

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Summary

As a Principal Solution Architect for Data & AI at E.ON, I deliver highly scalable use cases and machine learning architectures that power the energy transition in Europe. I am committed to engineering excellence: Building high-performing teams, fostering a culture of innovation, and continuously advancing our Data & AI capabilities.

Work Experience

E.ON Digital Technology
Munich, Germany

PRINCIPAL SOLUTION ARCHITECT - DATA & AI — *Aug. 2025 - Present*

- Led foundational AI/ML infrastructure development and oversaw the design and implementation of end-to-end AI solutions
- Drove alignment of Data & AI engineering practices across regions, ensuring consistency in architecture, tooling, and engineering practices

E.ON Digital Technology
Munich, Germany

SENIOR AI SOLUTION ARCHITECT — *Sep. 2024 - Aug. 2025*

- Ensured standardization of AI and MLOps practices and refined the reference architecture for E.ON's Data & AI landscape
- Spearheaded collaboration with key stakeholders from regional units to architect and optimize AI solutions

BCG Platinion
Munich, Germany

SENIOR IT ARCHITECT — *Oct. 2023 - Jun. 2024*

- Led a global team of engineers to deliver three GenAI products for an automotive OEM procurement department and reduced process cycle time by >50% (AWS, LangChain)
- Designed ML solutions and data pipelines for optimizing the energy usage of IoT-connected heating systems (AWS, Python)

IBM
Munich, Germany

SENIOR DATA SCIENTIST — *Sep. 2022 - Oct. 2023*

- Built scalable ML services using Transformer models for computer vision and natural language use cases (PyTorch, FastAPI)
- Architected and implemented a semantic search engine for multilingual PII corpora at a federal agency

BCG Platinion
Munich, Germany

SENIOR IT ARCHITECT — *Feb. 2022 - Aug. 2022*

- Directed development of an cloud data platform for energy grid ML services at a Dutch TSO (Azure)
- Led sell-side due diligence process for the data & IT architecture of a leading European payments provider

BCG Platinion
Munich, Germany

IT ARCHITECT (& VISITING ASSOCIATE) — *Jul. 2018 - Mar. 2020*

- Designed and led implementation of a real-time connected-car data platform ingesting high-throughput telematics streams (AWS)
- Built a DevOps platform enabling large-scale engineering teams to deploy containerized workloads (AWS, Kubernetes)
- Defined IT & data architecture for manufacturing analytics across wide network of Eastern European production sites

King Abdullah University of Science and Technology (KAUST)
Thuwal, Saudi-Arabia

VISITING STUDENT — *Apr. 2018 - Jul. 2018*

- Investigated the application of machine learning techniques to classify toxic comments in online social networks (Python, Tensorflow)

KRONES
Neutraubling, Germany

INTEGRATED DEGREE PROGRAM - INFORMATION SYSTEMS — *Jul. 2013 - Feb. 2018*

- Led a company-wide initiative on predictive maintenance using machinery sensor data (Azure, Hadoop, Python)

Education

The University of Melbourne
Melbourne, Australia

M.SC. IN DATA SCIENCE - GPA: 3.9/4.0 — *Mar. 2020 - Dec. 2021*

- Developed a Pacman agent based on deep reinforcement learning (top 5% rank in university-wide competition) (Python, Tensorflow)
- Title of final thesis: Adversarial Workload Matters - Executing a Large-Scale Poisoning Attack against Learned Index Structures (C++)

Universidad de Buenos Aires
Buenos Aires, Argentina

LICENCIATURA EN ANÁLISIS DE SISTEMAS - OVERALL GRADE: 10/10 — *Mar. 2016 - Jul. 2016*

- Completed a semester abroad as an exchange student in the Faculty of Engineering (Facultad de Ingeniería)

Ostbayerische Technische Hochschule Regensburg *Regensburg, Germany*

B.Sc. in Business Information Technology - GPA: 4.0/4.0 *Oct. 2014 - Feb. 2018*

- Evaluated the feasibility of using machine learning to perform intrusion detection in onboard vehicle networks (Python)
- Title of final thesis: Success Factors in Business-Managed IT

Publications

Success Factors in Business-Managed IT *Berlin, Germany*

SKILL - Studierendenkonferenz Informatik *Sep. 2018*

- Presented a research paper from a case study analysis of critical success factors in Business-Managed IT / Shadow-IT

Offensive Comment Classification on German Language Microposts *Vienna, Austria*

GermEval 2018 - Shared Task on the Identification of Offensive Language *Sep. 2018*

- Presented the participation of the KAUST MINE Lab for machine intelligence at the GermEval 2018 shared task

Honors & Awards

2016 **Scholarship**, German Academic Scholarship Foundation (1% acceptance rate) *Bonn, Germany*

2020 **Study Abroad Scholarship**, German Academic Exchange Service *Bonn, Germany*

Languages

German, maternal language *native speaker*

English, excellent command *Level C2 (CEFR)*

Spanish, very good command *Level C1 (CEFR)*

Portuguese, good command *Level B2 (CEFR)*

Arabic, working knowledge *Level A2 (CEFR)*