

# 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 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 to make the green energy transition happen.

## Work Experience

### E.ON Digital Technology

PRINCIPAL SOLUTION ARCHITECT - DATA & AI

Munich, Germany

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

SENIOR AI SOLUTION ARCHITECT

Munich, Germany

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

SENIOR IT ARCHITECT

Munich, Germany

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

SENIOR DATA SCIENTIST

Munich, Germany

Sep. 2022 - Oct. 2023

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

### BCG Platinion

SENIOR IT ARCHITECT

Munich, Germany

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 for the data & IT architecture of a leading European payments provider

### BCG Platinion

IT ARCHITECT (& VISITING ASSOCIATE)

Munich, Germany

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

Apr. 2018 - Jul. 2018

VISITING STUDENT

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

### KRONES

INTEGRATED DEGREE PROGRAM - INFORMATION SYSTEMS

Neutraubling, Germany

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

Mar. 2016 - Jul. 2016

LICENCIATURA EN ANÁLISIS DE SISTEMAS - OVERALL GRADE: 10/10

- 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

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### 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

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

Bonn, Germany

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

Bonn, Germany

## Languages

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**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)*