

# Matthias Bachfischer

CURRICULUM VITAE

Munich, Germany

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## Summary

Results-driven IT Architect and Data Scientist with 5+ years of experience architecting enterprise-scale ML solutions and leading technical teams across automotive, energy, and federal sectors.

## Work Experience

### E.ON Digital Technology

Munich, Germany

SENIOR AI SOLUTION ARCHITECT

Sep. 2024 - Present

- Led foundational AI/ML infrastructure development, design and implementation of end-to-end AI solutions
- Spearheaded collaboration with business stakeholders to architect and optimize AI solutions

### BCG Platinion

Munich, Germany

SENIOR IT ARCHITECT

Oct. 2023 - Jun. 2024

- Led the development of three Generative AI use cases in the procurement department of a leading automotive OEM to reduce offer processing time by >50% (AWS, Python, OpenAI, LangChain)
- Developed the concept for optimizing the energy usage of connected heating systems via machine learning algorithms at a startup in the energy sector (AWS, Python)

### IBM

Munich, Germany

SENIOR DATA SCIENTIST

Sep. 2022 - Oct. 2023

- Engineered highly-scalable machine learning services using Transformer-based models for computer vision and natural language processing tasks (Python, PyTorch, FastAPI)
- Architected a semantic search engine for querying a large multilingual corpus of PII data at a federal agency (Python, PyTorch)

### BCG Platinion

Munich, Germany

SENIOR IT ARCHITECT

Feb. 2022 - Aug. 2022

- Orchestrated the development of a cloud-based data platform to host machine learning services for energy grid data (Azure, Python)
- Executed a vendor due diligence of the IT architecture and data platform of a leading payments company

### BCG Platinion

Munich, Germany

IT ARCHITECT (& VISITING ASSOCIATE)

Jul. 2018 - Mar. 2020

- Designed and led the implementation of a real-time data analytics platform to process streaming data from connected cars (AWS, Python)
- Architected a highly-scalable DevOps platform for containerized deployments based on Jenkins for very large software development teams (AWS, Kubernetes)
- Designed a target IT architecture to facilitate the implementation of manufacturing analytics use cases for a large automotive supplier

### 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 to leverage sensor data from machinery for predictive maintenance (Azure, Apache 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

B.Sc. IN BUSINESS INFORMATION TECHNOLOGY - GPA: 4.0/4.0

- 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

Regensburg, Germany

Oct. 2014 - Feb. 2018

## Publications

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### Success Factors in Business-Managed IT

SKILL - STUDIERENDENKONFERENZ INFORMATIK

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

Berlin, Germany

Sep. 2018

### Offensive Comment Classification on German Language Microposts

GERMEVAL 2018 - SHARED TASK ON THE IDENTIFICATION OF OFFENSIVE LANGUAGE

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

Vienna, Austria

Sep. 2018

## 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)