

# Matthias Bachfischer

CURRICULUM VITAE  
Munich, Germany

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## Summary

I have over 4 years of experience as a Data Scientist and IT architect in the consulting industry. My expertise is in building highly scalable architectures for machine learning and analytics services as well as the teams and culture around that.

## Work Experience

### BCG Platinion

Munich, Germany

SENIOR IT ARCHITECT

Oct. 2023 - Jul. 2024

- Led the technical design and development activities for the implementation of three Generative AI use cases in the procurement department of a leading Automotive OEM (AWS, Python, OpenAI, LangChain)
- Developed the concept for optimization of 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

- Designed and implemented various highly-scalable machine learning services using Transformer-based models for computer vision and natural language processing tasks (Python, PyTorch)
- Developed 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

- Designed and led the development of a cloud-based data platform to host machine learning services for energy grid data (Azure, Python)
- Conducted a vendor due diligence assessment 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)
- Implemented a highly-scalable DevOps pipeline for very large software development teams (AWS, Kubernetes, Python)
- Developed 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

- Performed research on applying 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

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

## Honors & Awards

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2016	<b>Scholarship</b> , German Academic Scholarship Foundation (1% acceptance rate)	Bonn, Germany
2020	<b>Study Abroad Scholarship</b> , German Academic Exchange Service	Bonn, Germany

## Publications

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<b>Success Factors in Business-Managed IT</b> SKILL - STUDIERENDENKONFERENZ INFORMATIK	Berlin, Germany Sept. 2018
• Presented a research paper from a case study analysis of critical success factors in Business-Managed IT / Shadow-IT	
<b>Offensive Comment Classification on German Language Microposts</b> GERMEVAL 2018 - SHARED TASK ON THE IDENTIFICATION OF OFFENSIVE LANGUAGE	Vienna, Austria Sept. 2018
• Presented the participation of the KAUST MINE Lab for machine intelligence at the GermEval 2018 shared task	

## Languages

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<b>German</b> , maternal language	native speaker
<b>English</b> , excellent command	Level C2 (CEFR)
<b>Spanish</b> , very good command	Level C1 (CEFR)
<b>Portuguese</b> , good command	Level B2 (CEFR)
<b>Arabic</b> , working knowledge	Level A2 (CEFR)