

# Matthias Bachfischer

CURRICULUM VITAE  
Munich, Germany

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## Work Experience

### BCG Platinion GmbH

Munich, Germany

SENIOR IT ARCHITECT

Feb. 2022 - current

- Carried out a due diligence assessment of the IT architecture and data platform of a leading business travel and payments company

### BCG Platinion GmbH

Munich, Germany

IT ARCHITECT

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 based on Kubernetes (AWS, 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)
- Developed a large-scale dataset-driven search engine for scientific publications (Python)

### KRONES AG

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)
- Redefined the software- and requirements engineering processes and implemented custom tooling for Team Foundation Server (C#)

## 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)
- Employed a pre-trained language model to study the spread of fake news in social networks (Python, PyTorch)
- Analyzed a large social network graph using graph-based neural networks (Python, PyTorch)
- Title of final thesis: An Investigation Into the Effectiveness of Learned Database Indexes under Adversarial Settings (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 in-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

Sept. 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

Sept. 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