

# Matthias Bachfischer

CURRICULUM VITAE ·

Munich, Germany

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## Summary

About to finish my studies in Data Science (M.Sc.) at the University of Melbourne. Prior to my studies, I worked as an IT Architect at BCG Platinion. I have a strong technical background in statistics & machine learning and deep business expertise in digital transformation topics.

## Skills

**Programming Languages** Proficient in Python, Java and R, Familiar with Go, JavaScript and C / C++  
**IT Certifications** Certified SCRUM Master (PSM I), Certified Product Owner (PSPO I)  
**Software Frameworks** Various ML frameworks (PyTorch, Tensorflow), Apache Hadoop

## Education

### The University of Melbourne

Melbourne, Australia

M.Sc. IN DATA SCIENCE

Mar. 2020 - Mar. 2022

- Learned advanced concepts in the area of statistics, probability and computer science
- Experimented with various frameworks and techniques for machine learning & deep learning
- Title of final thesis: An Investigation Into the Effectiveness of Learned Indexes under Adversarial Settings

### Ostbayerische Technische Hochschule Regensburg

Regensburg, Germany

B.Sc. IN BUSINESS INFORMATION TECHNOLOGY

Oct. 2014 - Feb. 2018

- Learned various programming languages (Java, Javascript etc.), databases, computer networks and operating systems
- Evaluated the feasibility of applying machine learning in intrusion detection systems
- Title of final thesis: Success Factors in Business-Managed IT

### Universidad de Buenos Aires

Buenos Aires, Argentina

LICENCIATURA EN ANÁLISIS DE SISTEMAS

Mar. 2016 - Jul. 2016

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

### Industrie- und Handelskammer Regensburg

Regensburg, Germany

IT SPECIALIST (SYSTEM INTEGRATION)

Jul. 2013 - Jan. 2017

- Received professional training as part of the integrated degree program at KRONES AG

## Work Experience

### BCG Platinion GmbH

Munich, Germany

IT ARCHITECT & VISITING ASSOCIATE

Jul. 2018 - Mar. 2020

- Advised various companies from Industrial Goods & Automotive sector on digital transformation & IT strategy
- Designed, built, and implemented digital platforms and IT architectures using state-of-art technologies

### King Abdullah University of Science and Technology

Thuwal, Saudi-Arabia

VISITING STUDENT

Apr. 2018 - Jul. 2018

- Published a paper on using Machine Learning & Deep Learning techniques to classify toxic comments in online social networks
- Designed and developed a dataset-driven search engine for scientific publications

### KRONES AG

Neutraubling, Germany

INTEGRATED DEGREE PROGRAM - INFORMATION SYSTEMS

Jul. 2013 - Feb. 2018

- Implemented various IoT use cases on a Apache Hadoop Big Data Platform
- Restructured the software- and requirements engineering processes at KRONES

### KRONES do Brasil

São Paulo, Brazil

INTERNSHIP

Aug. 2015 - Sept. 2015

- Performed the migration of a stand-alone e-mail system to centrally hosted system based on MS Exchange
- Mentored the local IT staff to carry out IT support activities related to email and mobile device management

## Projects

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### Implementation of a real-time data analytics platform for connected cars

- Designed and implemented a cloud-based real-time data analytics platform for a leading German automotive OEM to process and analyze streaming data from connected cars

### Design of a target IT architecture to enable analytics use cases in manufacturing

- Designed a target IT architecture to enable implementation of manufacturing analytics use cases for a large automotive supplier

## Honors & Awards

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2016 **Scholarship**, German Academic Scholarship Foundation

*Bonn, Germany*

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

*Bonn, Germany*

## Publications

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### 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 (i.e. Shadow-IT systems that are operated overtly and with support of the IT organization)

### 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 Laboratory for Machine Intelligence and kNOWLEDGE Engineering (MINE) at the GermEval 2018 shared task (research paper + poster)

## Academic Experience

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### Java Programming Lecture - Ostbayerische Technische Hochschule Regensburg

*Regensburg, Germany*

TEACHING ASSISTANT

*Oct. 2017 - Feb. 2018*

- Teaching assistant for Java Programming lecture ("Programming 2")
- Responsible for weekly programming exercises with first-year students

## 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 B1 (CEFR)*

**Chinese**, basic knowledge

*Level A1 (CEFR)*

## Extracurricular Activity

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### International Negotiating Skills

*Regensburg, Germany*

ADDITIONAL TRAINING

*Oct. 2015 - Jul. 2017*

- Lectures and seminars on theoretical frameworks for cross-cultural studies and advice on how to act in an international environment

### Campus Asyl - Association to support refugees in Germany

*Regensburg, Germany*

MENTOR

*Mar. 2017 - Aug. 2017*

- Mentoring and assistance for refugees studying for a university degree at OTH Regensburg