Matthias **Bachfischer**

CURRICULUM VITAE ·

Munich, Germany

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Work Experience

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)
- Developed a target IT architecture to facilitate implementation of manufacturing analytics use cases for a large automotive supplier
- Implemented a highly-scalable DevOps pipeline based on Kubernetes (AWS, Python)

King Abdullah University of Science and Technology *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#)
- Performed the migration of an e-mail system to hosted MS Exchange during internship in São Paulo, Brazil

Education

The University of Melbourne *Melbourne, Australia*

M.SC. IN DATA SCIENCE - GPA: 3.9/4.0 (PRELIMINARY) *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++)

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

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)

Industrie- und Handelskammer Regensburg *Regensburg, Germany*

IT SPECIALIST - SYSTEM INTEGRATION - OVERALL GRADE: 92/100 *Jul. 2013 - Jan. 2017*

- Received professional training as part of the integrated degree program at KRONES AG (parallel to B.Sc.)

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*