Matthias **Bachfischer**

Curriculum Vitae

Munich, Germany

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Work Experience

IBM   *Munich, Germany*
Data Scientist   *Sep. 2022 - current*
- Developed machine learning services for computer vision and natural language processing for public sector institutions (Python, PyTorch)

BCG Platinion   *Munich, Germany*
Senior IT Architect   *Feb. 2022 - Aug. 2022*
- Designed and led the development of a hybrid-cloud 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   *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   *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)
- Analyzed a large social network graph to predict new connections using graph-based neural networks (Python, PyTorch)
- 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 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*