Matthias **Bachfischer**

Curriculum Vitae ·

Munich, Germany

✉ bachfischer.matthias@gmail.com | ⌂ bachfischer.me | Bachfischer | Bachfischer

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 - Overall grade: 1.0 (preliminary) *Mar. 2020 - Mar. 2022*

- Learned about advanced concepts in statistics, probability theory and machine learning
- Carried out research on using pre-trained language models like BERT to detect the spread of fake news in online social networks
- Implemented an autonomous agent based on Reinforcement Learning to compete in an Australian university competition
- Built a system to process data from very large graphs using Graph Convolutional Neural Networks
- 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 - Overall grade: 1.1 *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 - 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.)

Work Experience

BCG Platinion GmbH *Munich, Germany*

IT Architect & Visiting Associate *Jul. 2018 - Mar. 2020*

- Designed and led the implementation of a cloud-based real-time data analytics platform for a leading German automotive OEM to process and analyze streaming data from connected cars
- Developed a target IT architecture to enable implementation of manufacturing analytics use cases for a large automotive supplier as part of their Industry 4.0 initiative
- Advised various companies from Industrial Goods & Automotive sector on digital transformation & IT strategy
- Led cross-functional teams during the development of digital platforms (full-stack)

King Abdullah University of Science and Technology *Thuwal, Saudi-Arabia*

Visiting Student *Apr. 2018 - Jul. 2018*

- Published a paper on applying Machine Learning techniques to classify toxic comments in online social networks
- Developed a large-scale 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
- Redefined 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
- Collaborated with the local IT staff to to set-up IT support procedures for Brazilian users

Honors & Awards

2016 **Scholarship**, German Academic Scholarship Foundation   *Bonn, Germany*
2020 **Study Abroad Scholarship**, German Academic Exchange Service   *Bonn, Germany*

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 (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

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

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

International Negotiating Skills   *Regensburg, Germany*
Additional Training   *Oct. 2015 - Jul. 2017*
- Studied theoretical frameworks for cross-cultural studies and received advice on how to act in an international environment

Campus Asyl - Association to support refugees in Germany   *Regensburg, Germany*
Mentor   *Mar. 2017 - Aug. 2017*
- Mentored and provided assistance to refugees studying for a university degree at OTH Regensburg