ALEXANDER CZECH

DATA SCIENTIST

CONTACT

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- Vienna, Austria

SKILLS

- Python
- Apache Spark/Airflow
- AWS/EMR/EC2/S3/Athena
- Jupyter/git
- Pandas/numpy/keras/scikit-learn
- nltk/happytransformer/gensim
- shell/R/Java/Scala/C++
- SQL/PostgreSQL/PostGIS
- ESRI ArcGIS/SERVER
- QGIS/SAGA GIS/ENVI

LANGUAGES

German | Fluent (C2)
English | Fluent (C2)

INTERESTS

Krav Maga, archery, board games, skiing, reddit, diving, solo travel, technology, minesweeper, geopolitics, cinema, cooking, baking, geocaching

EXPERIENCE

Senior Data Scientist

DataScience Service GmbH | Vienna | 03/2020 - present

- **Data mining** from unstructured data with **ML**/**NLP methods**
- **Data engineering** and **ETL Pipelining** for unstructured data
- **ML modeling**, **classification** and **analysis** tasks
- **Data architecture** and **Data Modeling** for spatial data, text data, and data mined information
- Extraction, analysis and web mapping of spatial data
- **Planing**, **coordination** and **execution** of research projects with external partners

Research Scientist

Vienna University of Technology | Vienna | 01/2016 - 02/2020

- Developed **Apache Spark** analysis pipelines for data mining crawling data
- Employed **Spark** and **GraphFrames** for Webgraph analysis
- Document embeddings for **information retrieval** and **similarity** tasks
- Cluster orchestration on cloud infrastructure (**AWS**) with **EMR** and **Flintrock**
- Teaching classes in **GIS**, **spatial analytics**, **statistics** and **python** programming
- Developed and maintained a tool for automated student homework evaluation in **Python** and **Pandas**

Technical Support Engineer

Deiser Compact Computing | Vienna | 06/ 2012 - 09/2015

- First and second level IT-Support for client companies
- Developed and maintained an in-house ticketing system in **Python** and **Bottle**

EDUCATION

PhD (ongoing), Data Science (Faculty for Spatial Planning)

Vienna University of Technology | Vienna | since 2016

- Urban system centrality, data mining, graph analysis, and NLP

Master of Science, Geoinformation Science

University of Vienna | Vienna | 2015 | with distinction

- Information retrieval, data mining, programming location-based services

Bachelor of Science, Geography

University of Hamburg | Hamburg | 2011

- Emphasis on statistics, GIS and geoscientific programming