ALEXANDER CZECH

Data Scientist

CONTACT

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📍 Vienna, Austria

🧭 alxc.net

SKILLS

- Python
- Apache Spark
- AWS/EMR/EC2/S3/Athena
- Jupyter
- Pandas/numpy
- gensim/nltk/scikit-learn
- shell/Java/Scala/C++
- SQL/PostgreSQL/PostGIS
- ArcGIS/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 | 2020 - present

- Feature extraction with **NLP** from unstructured text documents
- Spatial data engineering and Spatial Semantics development
- Research project coordination
- Large Scale Image to Spatial Data Vectorization
- **ETL** Pipeline for Document **OCR** and Data Extraction

Research Scientist

Vienna University of Technology | Vienna | 2016 - 2020

- Developed **Apache Spark** analysis pipelines for data mining crawling data
- Employed **Spark** and **GraphFrames** for Webgraph analysis
- Created document embeddings for similarity task with **doc2vec models**
- Cluster orchestration on **AWS** with **Flintrock** and **EMR**
- Teaching courses in spatial analytics, regional analytics and Python programming
- Developed and maintained a tool for automated student homework evaluation in **Python** and **Pandas**

Technical Support Engineer

Deiser Compact Computing | Vienna | 2012 - 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