



PETER LEUPOLD

Freelance Data Scientist

SKILLS

SQL	5+ yrs
Python	3+ yrs
Linux	10+ yrs
C++	5+ yrs
Java	10+ yrs
Html/CSS	10+ yrs
Javascript	3+ yrs
Git	3+ yrs

CONTACT

Tulpenweg 4
95233 Helmbrechts
Germany

+49 171 1038 2269

Peter.Leupold@web.de

www.wortspieler.org

PROFILE

After many years in research and teaching in Theoretical Informatics I am now on my way into applied informatics.

During my time at the University of Bremen I could work with data of many different types on a variety of systems. These experiences from another part of computer science aroused my curiosity.

The courses for the *IBM Data Science Professional Certificate*, which I have recently completed, have broadened my horizon in data science considerably. I now have knowledge of all the tools applied throughout the entire cycle from collecting and cleaning data to analysing it to learning predictive models.

WORK EXPERIENCE

University of Bremen, Database Group, Scientific Assistant
Research, Teaching, and Development

May 2019 – Aug 2022

Work with several data base systems for conducting experiments, collecting and cleaning data and using them in teaching.

- Preparing and conducting different types of classes on databases. Creating databases, users and infrastructure for practical sessions
- Analyzing data from the DBLP database
- Implementing experiments for the compression of the Software-Heritage-Foundation graph (1,5 TB, 300 MB RAM) in Java

Technologies include:

- mySQL, SQLite, PostgreSQL
- Elastic Search
- Java, Python, C
- Virtual Machines

Scientist at the Universities Rovira i Virgili, Kyoto Sangyo, Kassel and Leipzig
Research and Teaching

2002 – 2014

Positions with grants and contracts

EDUCATION

2002 - 2006

PhD Informatics

Universitat Rovira i Virgili,
Tarragona

Formal Languages and Automata

1996 - 2002

Diplominformatiker

Universität Jena

- Research in Automata Theory, Formal Languages, Combinatorics on Words, and DNA Computing
- more than 40 refereed publications
- numerous presentations at scientific conferences
- successful proposals for grants (Spanish Ministry of Science, Japanese Society for the Promotion of Science, Humboldt Foundation, Generalitat de Catalunya)
- Complete academic CV available at:
http://www.wortspieler.org/docs/AcademicCV_PeterLeupold.pdf

CERTIFICATIONS

IBM Data Science Professional Certificate



Skills applied include Python (Pandas, NumPy, matplotlib, BeautifulSoup, seaborn, sklearn), Machine Learning, Jupyter Notebooks, SQL

