SYLVIO HELLMANN
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+49 176 74584007

Senior Data Engineer

Data is my passion—from collection, storage, and transformation to analysis and presentation. For over 30 years, I have been designing and implementing complex database and data warehouse systems for leading international corporations. With my extensive expertise and years of experience, I am dedicated to helping you collect, process, consolidate, and compellingly present the information available within your company or provided by external partners.

While this process may seem straightforward in theory, the sheer volume of data generated daily presents a significant challenge for any organization. I am happy to support you with my expertise and experience to successfully bring your data projects to life.

Main topics → Data

- Modelling
- Storage
- Transformation
- Analysis
- Presentation

Technologies:

- Database
- Data Warehouse
- Data Lake(house)/Delta Lake
- Extract Transform Load (ETL/ELT)
- Machine Learning/AI

Tools (selection):

- Microsoft Azure
  - Synapse Workspace
  - Databricks
  - Data Factory
  - Power BI
  - Storage Accounts
  - Azure Key Vault
  - Azure Event Grid
  - Azure Function
  - Azure SQL VM, SQL Databases
  - Azure PostgreSQL
  - Azure VM
  - CosmosDB
  - Azure ML
- On Premise
  - SQL Server (Database, SSIS, SSRS, SSAS)
  - Power BI-Desktop

Programming languages (selection)

- Python
- Spark/PySpark
- Scala
- T-SQL, MDX, DAX, …
- C#
- PowerShell

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Certifications

(Selection)

Microsoft CERTIFIED EXPERT	Microsoft® Certified Solution Expert: Data Management and Analytics Charter Member	26.09.2016
Microsoft CERTIFIED EXPERT	Microsoft® Certified Solution Expert: Business Intelligence	09.07.2014
Microsoft CERTIFIED ASSOCIATE	MCSA: SQL Server 2012/2014	23.04.2014
Microsoft CERTIFIED FUNDAMENTALS	Microsoft Certified Professional	31.10.2013

Languages

German	Mother tongue
English	fluent in spoken and written English thanks to many years of experience in foreign assignments

Project Overview

On the following pages I have put together an overview of selected customer projects from recent years. Some technologies/products and programming languages are named for the projects, which I mainly used to complete my task. These do not claim to be complete.

On request I can also provide you with a complete project list and extended lists of technologies, products and programming languages that I have already used in projects.

I would also be happy to name contact persons for the respective projects, insofar as I have received approval from the customer, which my references can confirm.

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MERCEDES BENZ AUTOMOTIVE MOBILITY 02/2024 – 03/2025

As a division of the Mercedes-Benz Group, the **Automotive Mobility** sector is responsible for the rental and sale of vehicles, as well as providing additional services. The company has been active in the market since 2016 and has now grown to over 100 employees.

Key Areas of My Work

- Designing, developing, and maintaining data pipelines and workflows using **Databricks** and **Azure Data Factory** to process data from various sources within our data platform.
- Developing **data integration processes** to ensure a seamless flow of information between different systems and applications.
- Implementing **data quality checks** and validation procedures to identify and resolve inconsistencies, errors, and anomalies in the data.
- Optimizing **data processing and storage** with a focus on performance, scalability, and cost efficiency.
- **Monitoring data pipelines**, troubleshooting issues, and ensuring timely resolutions to minimize downtime and prevent data loss.
- Creating **CI/CD pipelines** using **GitHub Actions**.
- Collaborating closely with stakeholders to understand their data requirements and provide them with **reliable, high-quality data** for analysis and reporting.
- Developing **interactive and visually engaging dashboards and reports** using **Power BI** to communicate insights and key performance indicators (KPIs) to stakeholders.

Technologies:

Databricks, IBM DB2, Azure PostgreSQL, Azure SQL Database, GitHub Enterprise

Azure Key Vault, Azure Data Factory, Power BI, ReST API

- Programmiersprachen:

Python, PySpark, SQL (Databricks, DB2, PostgreSQL), YAML

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BAYWA R.E. AG 10/2022 - 02/2024

My client is responsible for activities in the field of renewable energies. He develops and implements projects with solar, wind and bio energy worldwide. Additionally, he offers consulting services, support, operational management, and maintenance of systems, as well as a wholesaler of photovoltaic components, energy trading and renewable energy solutions for companies.

To control the planning and the operation for plants of regenerative energies, the customer initiated two project "Global Projects Pipeline Analytics Platform" and “Global Services Database” to consolidate existing and make it available to all employees.

My tasks as Senior Data Engineer and Data Architect in the project was e. g.

- Data Model Structure
  - Group project data field by subject
  - Define the relation between data tables
  - Establish history tables meeting the demands of different areas
  - Consider new technologies and hybrid projects
  - Incorporate existing data from the existing DB and other sources within the company
  - Scalability
- Historization
  - Access by date – e. g. for reporting purposes
  - Access project data over time
  - Improve Interface to Microsoft Power BI
- Data Migration
- Development Process
  - restructure and optimization
  - introduction of new tools and technologies
  - knowledge transfer
- New Data Sources
  - Connect to SSAS in an external customer environment
  - Attach new Web Services, Power BI, Master Data Management, …

Technologies:

SQL Database, Azure Function, Azure DevOps, SharePoint, Workfront

Azure Key Vault, Azure Data Factory, ReST API, Databricks, Power BI

Programming Languages:

T-/Spark-SQL, PowerShell, PySpark/Scala, YAML

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STRABAG AG 5/2021 – 9/2022

My customer is European-based technology group for construction services, and a leader in terms of innovation and financial strength. More than 73,000 employees work together to span all areas of the construction industry and cover the entire construction value chain - from design to planning, from construction to property and facility services, financing, from operation all the way to demolition.

As an important building block for corporate management, the customer started building a data warehouse platform (Data Science Hub) as part of a project, on which data from internal systems such as IoT devices for measuring e. g. from screed moisture, via machine data e. g. consumption values of asphalt mixing plants to financial data with external data e. g. weather information is processed and brought together.

My tasks as Data Engineer und Data Architect in this project is:

- Design and optimize of the Data architecture
  next step: migration of the existing environment into the Microsoft defined Cloud-scale analytics a spart of the Cloud Adoption Framework
- Planning and design of high available and performant data pipelines (ETL/ELT) to process of data stream from different sources into the Data Warehouse.
- Analysis und Storage of structured and unstructured Data
- Development of Azure DevOps pipelines for Build, Test and Deployment
- Selection of data infrastructures and improvement of the Data Science environment
- Opening up of new data sources
- Defining of Use Cases and classification of required technologies
- Introduction of Azure DevOps and Scrum into the project

Technologies:

Azure Synapse Analytics | Azure Data Lake Storage | SQL Database | Azure Function | Azure DevOps

Azure Key Vault | Azure Data Factory | Azure Cosmos DB | ReST API | Power BI

Programming languages:

T-/Spark-SQL | PowerShell | PySpark/Scala | YAML

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MUNICH RE 07/2019-04/2021

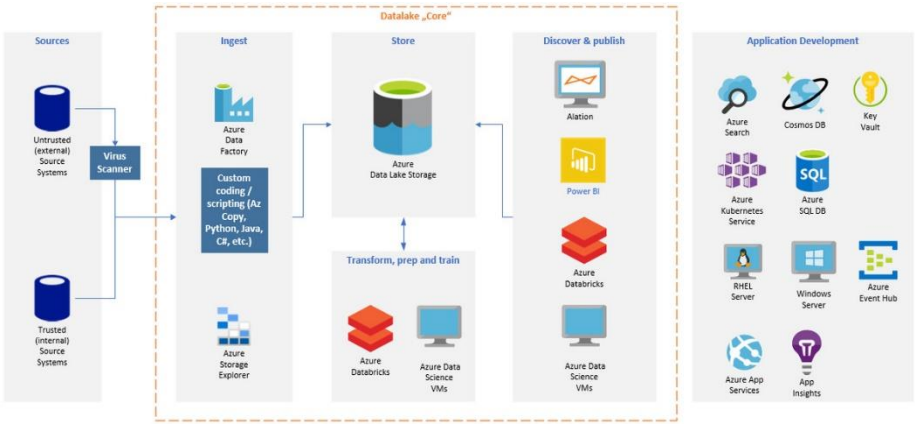
My client is one of the world's leading reinsurance companies with 43,000 employees at over 50 locations around the world and is active in all insurance lines. He is a close partner of insurance companies in all countries and also insures very special cases, from Olympic games to rocket launches.

The project „Big Data & Analytics Platform“ was initiated with the goal to create a central solution or the evaluation of risks in the insurance industry by the customer. For this purpose, data from global insurance companies was merged, processed relationally, using machine learning algorithms, and evaluations were made available in a special Power BI portal.

As a data engineer in the project, my main task was to develop data pipelines in the Microsoft Azure cloud and automate them with the aim of providing an analytical model. This included:

- Technical advice and creation of IT specifications
- Design and optimization of the technical architecture of the system
- Requirements analysis with the customer's business architects and their partners
- Creation of system documentation
- Presentation of results
- Support for data scientists in creating and providing evaluations based on Power BI
- DevOps teams to build, test and deploy the required services and solution.

Technologies:



Source: https://customers.microsoft.com/de-de/story/1409443307590258486-munichre-azure-databricks-datalake-de

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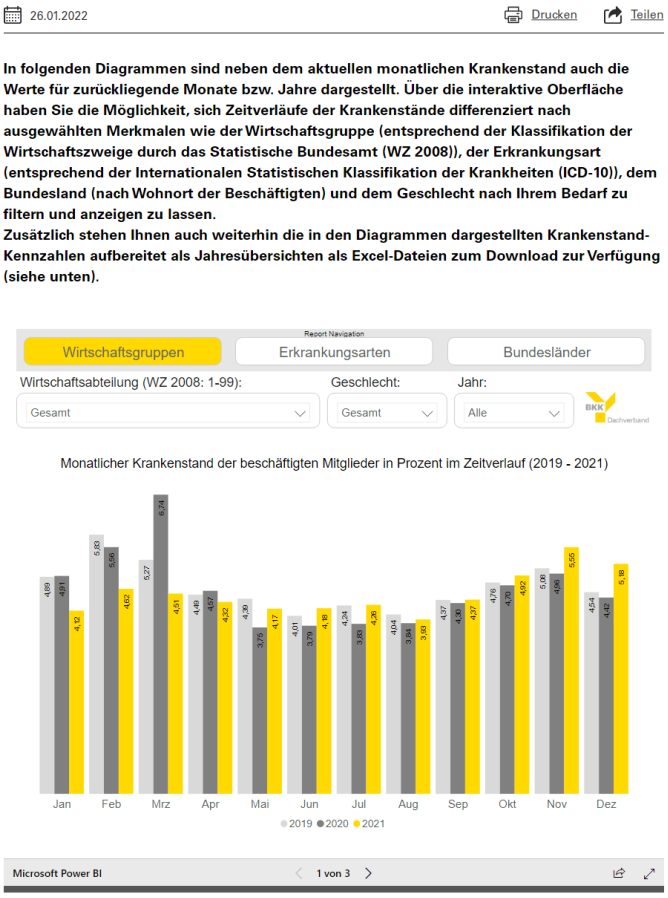
DACHVERBAND DER BETRIEBSKRANKENKASSEN 10/2019 – 3/2020

My customer for this project is an **umbrella organization of company health insurance companies in Germany**, which currently has 68 company health insurance companies (BKK) and four BKK state associations. The interest group, which operates at federal level, represents its members primarily in relation to health policy stakeholders, specialist groups in the social security systems and the media. Experts and specialists work in the association in the areas of politics and communication, care management, health promotion, data management and strategic controlling as well as in association work.

The task of this project was to create **interactive reports for members and customers** as part of a redesign of the company's website. A sample report from this solution is available, for example, at the following address: https://www.bkk-dachverband.de/statistik/monatlicher-krankenstand:



Technologies and programming languages:

SQL Database | Power BI | T-SQL | PowerShell

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BEST SECRET 9/2018 – 6/2019

The company is the **leading European members-only online destination for premium and luxury off-price fashion**. Partnering with over 3,000 international brands, our tech-focused mindset and strong commitment to sustainability drives a truly unique experience for our members. With almost 100 years of experience behind, and a major tech transformation ahead, the company is scaling at pace to become one of Europe's most exciting ecommerce players with more than 1,700 employees from over 80 countries.

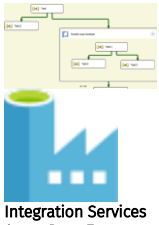
The aim of the project was to **replace/migrate a data warehouse and data analytics platform** based on Microsoft technologies on premise with an optimized platform in the Microsoft Azure Cloud.

My tasks are to implement the requirements of the stakeholders together with an international developer team, optimizing the development process (CI/CD), designing the platform/services/systems and coordinating operations (including user helpdesk).

Technologies:

SQL Database/
SQL Server

Analysis Services



Integration Services
Azure Data Factory

Azure DevOps

Power BI

Programming languages:

T-SQL

PowerShell

Extract of my Customers