# Marvin Taschenberger

## Data Engineer / Data Architect

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Solution oriented data architect with a strong focus on automation, communication and sharing knowledge. Architectures that I create and code that i write always puts humans first.

## SKILLS

| | |
|---|---|
| **Tools and Languages** | Python 8/10, Docker 7/10, Linux 7/10, Kafka 6/10, SQL (MySQL 6/10 ), NoSQL (MongoDB 6/10, Clickhouse 6/10, Neo4j 3/10 ), Cloud (Google 4/10, Digital Ocean - hobby), LaTeX 3/10, Golang (2/10 - hobby) |
| **Communication** | German (mother tongue), English (business professional) |

## TECHNICAL EXPERIENCE

**Data Architect**                                                                                                          Jun 2021 — Present
**Data Engineer**                                                                                                          Dec 2018 — Jun 2021
*Solactive*                                                                                                                                    *Frankfurt*

### Key Responsibilities

- Providing several guidelines and documentations to point the developers in a direct of a proper micro-service (12-Factor-App) inspired design and promote decoupling, cohesion and SOLID-principles to increase the quality and lower the cost of development.
- Composing guidelines for local testing (Unit & Integration Test), system testing and User-Acceptance-Test(UAT) and their integration in the service life-cycle.
- Creating several utilities and deployment templates to implement the new Configuration, Test and Release Management. Including building several CI/CD pipelines as well as the creation of several helpers (based on cookiecutter) that create boilerplate code and folder structures.
- Designing, implementing and enforcing of several ITIL conform standards regarding configuration (CM), test (TM) and release (RM) management.
- Increasing process transparency via openTelemetry, Jaeger and Grafana
- Establishing and maintaining standards for software, code and review quality
- Designing multiple micro-service based end-to-end data pipelines using Kafka-stream and pythons Faust Framework.
- Onboarding several vendors for market data using various delivery methods and data structures. Reaching from on-demand APIs to complex formats delivered via file protocols
- Building a data warehouse for complex-data including data streams and feeds from multiple vendors including end-of-day as well as intraday market data.
- Developing of a cryptocurrency-calculation-engine for indices and ETFs based on CoinMarketCap's API.
- Establishing a Log-workflow with standards log utilities, EFK-Stack and Grafana
- Implementing a Full-Stack Dashboard to monitor data-pipelines and view process statuses for business teams via python and dash
- Training of business-user, analysts and developers in python and general programming
- Hiring, supervising and training of the departments software-engineering interns and new joiners

### Technologies

Python, Kafka, Clickhouse, MySQL, MongoDB, Docker, RabbitMQ, Jenkins, Redis, Airflow, Rundeck, Linux, Grafana, EFK-Stack

**Consultant Data Scientist**                                                                                          Oct 2017 — Nov 2018
*STATWORX*                                                                                                                                    *Frankfurt*

### Key Responsibilities

- Support and Manage of major projects by creating architectures, ML models, data pipelines and presentations.
- Holding a biweekly python workshop to train fellow employees.
- Numerous side projects
  - development of a AI based Tool to estimate the the success rate for invites on business portal like Linked-In or Xing.
  - support of a development to classify and cost estimation of damages on building based on drone images

- consulting clients by providing concepts of database-systems, data-pipelines and integration of data science into their product and project life-cycle.s

**Technologies**

R, Python,Docker, PostgreSQL, Linux, Google Cloud

**Project: Multinational retailer**                                    **Oct. 2017 — Nov. 2018**
*STATWORX*                                                                        *Frankfurt*

**Outline**

Creation of a web based Application to evaluate and forecast customers effect on changes in the pricing strategy. The underlying simulation supported either models either based on statistical elasticity or on a random forest.

**Key Responsibilities**

- Extending and fine-tuning the statistical and machine learning models by enriching the underlying business model and data pipelines.
- Designing the technical architecture to bring the POC into production
- Automating of the data preparation via R, python and airflow and deploy it via docker on premises.
- Design and implementing the Full-Stack application using R, R-Shiny and JavaScript.
- Deploying the Tech-Stack on multiple platform over its lifetime including on-prem, Azure and Google Cloud.
- Holding trainings, workshops and presentations for the clients to handle the application from the business, technical and management perspective.

**Technologies**

R, Python, Airflow, Docker, PostgreSQL, Linux, Azure, Google Cloud

## EDUCATION

**M.Sc. Economics — Major in Statistics and Econometrics - Grade: 1.9** , *University of Bonn*          2015 — 2017
**B.Sc. Economics 2012 — Major in Macroeconomics - Grade: 2.1**, *Christian Albrechts University, Kiel*          2012 — 2015

## INTERESTS

- D&D and Boardgames
- Cooking
- 3D-printing and modeling
- Coffee