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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), ETL X3/10, Golang (2/10 - hobby)
Communication	German (mother tongue), English (business professional)

TECHNICAL EXPERIENCE

Data Architect	Jun 2021 — Present
Data Engineer	Dec 2018 — Jun 2021
<i>Solactive</i>	<i>Frankfurt</i>

Key Responsibilities

- Designing multiple micro-service based end-to-end data pipelines using Kafka-stream and python's 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
- 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
- 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
<i>STATWORX</i>	<i>Frankfurt</i>

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

STATWORX

Oct. 2017 — Nov. 2018

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