



Marko Pacak

Senior Data Engineer

Basel, CH - info@markopacak.com - 0041 (0) 77 484 56 16

2023-6
present

Senior / Staff Data Engineer (Platform, Cloud & Analytics)

RoomPriceGenie AG - Remote, Zug (CH), Mannheim (DE)

[Snowflake](#), [DBT](#), [Terraform](#), [AWS](#), [Polars](#), [Pandas](#), [Postgresql](#), [cube.dev](#), [Django](#), [Datadog](#)

- Managed reporting tool for 1000+ pro clients. Includes verifying calculations, benchmarking against external reports, developing new models, and maintaining/refactoring legacy ones
- Modelled and maintained Data Warehouse using Kimball design (30 GB main fact table, hourly refreshes, near-real-time ingestion)
- Accelerated reporting calculations up to 10× via pre-calculated snapshots and aggregate tables; introduced analytical semantic layer with Cube.dev
- Centralized transformations in Snowflake/DBT/Dagster, enabling faster development and parallel work across multiple data teams; leveraged AI-assisted DBT transformation drafting
- Implemented data contracts to coordinate upstream/downstream changes, improving team alignment
- Built Terraform / AWS modules to support Dagster workflows (demo on GitHub)
- Deployed AWS-native analytics tools: Athena, Glue Catalog/Jobs, Delta Tables (demo on GitHub)
- Led complex data integration that drove record revenue month (opening the Australian market)
- Developed data quality & freshness checks in DBT/Dagster; monitored pipeline health in Datadog.
- Conducted technical & team-fit interviews, performance reviews, coaching sessions, and workshops.

2022-9

2023-6

Senior Cloud & Data Engineer

Galeria Kaufhof Karstadt - Remote, Essen (DE)

[AWS](#), [Terraform](#) [Python](#), [Nodejs](#), [Docker](#), [Jenkins](#), [Datadog](#)

- Developed and maintained data pipeline and multiple analytics calculations in production (Terraform, SQS, S3, Lambda, Glue, Spark, Step Functions, Redshift), processing up to 5 gigabytes / 10 minutes
- Introduced Data Quality Checks for identifying anomalies in items stock data (AWS Glue)
- Led projects with teams of external consultants
- Maintained jenkins pipeline automating build/push of containers to EC Registry
- Set-up monitoring views and automated alerts in Datadog and AWS Cloudwatch

2020-9

2022-9

Senior Cloud & Software Engineer

NextBigThing AG - Berlin (DE)

[AWS](#), [Terraform](#), [IoT](#), [Python](#), [Docker](#), [Django](#), [SQLAlchemy](#), [Pandas](#), [Grafana](#)

- Developed real-time ETL pipelines for ingesting and processing sensors event data (IoT Core, Kinesis Streams, Lambda, Pandas, S3, DuckDB), with peaks of 2K requests / second
- Developed API Services (Django/Flask, AWS API Gateway, Lambda, EC2, AutoScaling, Redis)
- Managed CI/CD pipelines (GitLab CI, AWS CodePipeline)
- Introduced Terraform to the company and moved from ClickOps to IaC

Personal Information

nationality Swiss

date of birth 01.06.1991

linkedin [/in/markopacak](#)

github [/markopacak](#)

stackoverflow [/users/8524301/payloc91](#)

Languages

Italian

native / bilingual

English

full professional proficiency

German

professional working proficiency

Bosnian / Serbo-Croatian

native, bilingual

French

basic skills

Management Experience

Project Management and Milestones

Prioritization and alignment with Product

Technical and team-fit interviews

Performance Reviews

Workshops and Coaching

Side-gigs and hobbies

Hiking Groups Guide and Organizer

All-round-help and snowboard instructor assistant for scout kids

Contributions (see github)

[numpy/numpy](#)

[pandas-dev/pandas](#)

[pytest-dev/pytest](#)

- Freelance Software & Cloud Engineer**
 2020-6
 2021-9
 - Bryter GmbH - Remote, Frankfurt (DE)
[AWS, Openfaas, Kubernetes, Java, Kotlin, Python](#)
 - Developed the Bryter state-machine platform
 - Integrated 3rd party APIs: DocuSign, iManage, British commerce register...
 - Mentored external developers on how to use the framework
- 2020-1
 2021-9
 - Auxolar GmbH and Next Big Thing AG - Remote, Berlin (DE)
[AWS, IoT, Django, Python, Pandas, C++](#)
 - Developed calculations of energy consumption and generation (AWS Lambda/EC2)
 - Prepared data models for data scientist
 - Developed embedded software (Python, METR M-Gate, Raspberry)
- 2018-6
 2019-12
 - Assetmax AG - Remote, Zurich (CH)
[AWS, Java, Python, Pandas, IT-Security](#)
- 2017-6
 2018-6
 - **Software Engineer**
 Assetmax AG - Lugano, Zurich (CH)
[AWS, Java, Python, Pandas, IT-Security, Postgresql](#)
 - Migrated home-made web-framework to Spring web-services
 - Automated deployment the Assetmax software in banking systems
 - Developed financial calculations and asset reporting (Java/Python, Lambda, EC2)
 - Managed an external team of front-end engineers
 - Integrated authentication protocols with banking networks: OAuth, Kerberos, SPNEGO, ...
 - Developed data extraction with Bloomberg, SIX, ...
 - Ran penetration attacks and hardened systems deployed in clients network: worked with one of the largest IT-Sec companies in Europe
 - Wrote tooling / scripts to automate the release of the Assetmax software within banking networks (Python scripting / tooling)
 - Database optimization
- 2013-1
 2013-9
 - **Pricing Management Assistant**
 EFG Bank - Lugano (CH)
 - Strategic and Operative Pricing Management
 - Automated processes and queries on the banking platform Avaloq

Education & certifications

- 2013-9
 2017-1
 - **Bachelor of Science in Computer Science and Engineering**
 University of Applied Sciences of Southern Switzerland (SUPSI) - Lugano (Switzerland)
 - BA thesis: Real-time streaming of video content over UDP/TCP using the gstreamer (C++) framework
 Supervisor: Prof. Leidi Tiziano
- [AWS Certified Developer Associate](#)
 Credential number: Y5SHLSTC5JV41DWD
- [DeepLearning.AI Tensorflow Developer Specialization](#)
- [DeepLearning.AI Deep Learning Certification](#)