



Marko Pacak

Senior Data Engineer

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Personal Information

nationality	Swiss
date of birth	01.06.1991
linkedin	/in/markopacak
github	/markopacak
stackoverflow	/users/8524301/pavloc91

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

since 2025-9	● Staff Data Engineer (Analytics)
2023-6	● Senior Data Engineer / Project Lead (Platform, Cloud & Analytics)
2025-8	RoomPriceGenie AG - Remote, Zug (CH), Mannheim (DE) Snowflake , DBT , Terraform , AWS , Polars , Pandas , Postgresql , cube.dev , Django , Datadog <ul style="list-style-type: none">- 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	● Senior Cloud & Data Engineer
2023-6	Galeria Kaufhof Karstadt - Remote, Essen (DE) AWS , Terraform Python , Nodejs , Docker , Jenkins , Datadog <ul style="list-style-type: none">- 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	● Senior Cloud & Software Engineer
2022-9	NextBigThing AG - Berlin (DE) AWS , Terraform , IoT , Python , Docker , Django , SQLAlchemy , Pandas , Grafana <ul style="list-style-type: none">- 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

- **Freelance Software & Cloud Engineer**
 - 2020-6 ● Bryter GmbH - Remote, Frankfurt (DE)
 - 2021-9 [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 ● Auxolar GmbH and Next Big Thing AG - Remote, Berlin (DE)
 - 2021-9 [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 ● Assetmax AG - Remote, Zurich (CH)
 - 2019-12 [AWS, Java, Python, Pandas, IT-Security](#)
 - 2017-6 ● **Software Engineer**
 - 2018-6 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 ● **Pricing Management Assistant**
 - 2013-9 EFG Bank - Lugano (CH)
 - Strategic and Operative Pricing Management
 - Automated processes and queries on the banking platform Avaloq

Education & certifications

- 2013-9 ● **Bachelor of Science in Computer Science and Engineering**
- 2017-1 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](#)