

Dmitrii Cherkashin

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ABOUT

As a Data Engineer with over seven years of experience, I specialize in building scalable and reliable data pipelines and platforms. I hold a degree in Mathematical Physics from Lomonosov Moscow State University. My skills include data engineering, architecture, and warehouse design across various domains. I have led and mentored teams, developed data warehouse architectures, and optimized data solutions. Proficient in Python, SQL, ClickHouse, and Trino, I am passionate about solving complex data problems and delivering business value through collaboration and continuous learning.

EDUCATION

Lomonosov Moscow State University

Moscow, Russia

Bachelor

2018

- Specialization in Mathematical Physics in the Department of Computational Mathematics and Cybernetics

WORK EXPERIENCE

Anabar

Remote

Senior Data Engineer

02/2023 – 06/2024

• Responsibilities:

- Designing and implementing scalable and efficient data processing pipelines using Airflow, Trino, and ClickHouse in a Yandex Cloud environment.
- Optimizing data storage and query performance in ClickHouse.
- Participating in the migration from a monolithic architecture to a microservices-based architecture using FastAPI.
- Collaborating with cross-functional teams to understand data requirements, develop appropriate solutions, and ensure data quality and consistency.

• Achievements:

- Reduced data processing time from 17 hours to 7 hours, improving SLA compliance from 70% to 95%.
- Achieved a 40% reduction in storage usage by optimizing data storage in ClickHouse.
- Improved p90 query response times from 20 seconds to under 1 second.
- Enhanced team knowledge and practices in data engineering through effective mentorship and technical presentations.

Agro.club

Moscow, Russia

Lead Data Engineer

09/2021 – 11/2022

• Responsibilities:

- Hiring and managing DWH team from scratch.
- Developing a strategy for the DWH division.
- Setting and monitoring deadlines.
- Developing processes within DWH and building the process of interaction with business users.
- Designing and engineering Data Warehouse architecture via Data Vault.
- Building ETL pipelines from various sources (MongoDB, Postgres, API) into the Data Warehouse using Airflow.
- Developing a data synchronization system with partner ERP systems and PostgreSQL backend database.
- Implementing Data Quality checks and Data Governance approach.
- Organizing raw data delivery to the analytical database

• Achievements:

- Established and led a Data Warehouse team, ensuring effective data management and integration.
- Designed a scalable Data Warehouse architecture using Data Vault methodology.
- Developed robust ETL pipelines, enhancing data flow and accessibility.
- Created a data synchronization system, improving data consistency across partner ERP systems.
- Enhanced data quality and governance, ensuring reliable and compliant data management.
- Accelerated the generation time of business reports from 1.5 hours to 1-2 minutes, significantly improving data accessibility and decision-making speed.

WORK EXPERIENCE

Citymobil

Senior Data Engineer

Moscow, Russia

06/2020 – 09/2021

- **Responsibilities:**

- Building ETL pipelines from various sources (MySQL, Clickhouse, Kafka API) into the Data Warehouse using Airflow.
- Implementing online replication (CDC) from MySQL to Kafka to Exasol.
- Designing and implementing DDS Loader using Airflow DAGs and Operators.

- **Achievements:**

- Developed architecture for Self-Service Replication to facilitate “one-click” replication of tables.
- Enhanced the structural integrity and utility of the data warehouse by implementing a detailed architectural framework using DataVault methodology.

Mail.ru group

Senior System Analyst DWH

Moscow, Russia

11/2018 – 06/2020

- **Responsibilities:**

- Creating a DWH data model for Delivery Club.
- Developing ecommerce user portrait reports for Mail.ru Group using Tableau.
- Supporting Spark scripts for data handling and processing.
- Creating a logical data model for Citymobil from scratch.

- **Achievements:**

- Reduced the time from task creation to reporting to production from 3 weeks to 1 week.
- Improved data processing and visualization capabilities, enhancing decision-making and operational efficiency.

Tinkoff bank

System Analyst DWH

Moscow, Russia

10/2017 – 11/2018

- **Responsibilities:**

- Designing integration to receive checks from the national payment card system.
- Designing and prototyping Data Model and Data Marts using Data Vault architecture via SAP PowerDesigner.
- Working with DBMS GreenPlum and Vertica, ETL tools SAS DIS and Informatica PC, BI tools SAS EG, SAP BO, Zeppelin.
- Writing BRD (Business Requirement Documents) and FSD (Functional Specification Documents).

- **Achievements:**

- Successfully integrated with the national payment system, ensuring efficient receipt and processing of checks.
- Developed and implemented an effective data model that enhanced the quality and accessibility of data for analytical queries.
- Optimized data handling processes and improved the efficiency of analytical reporting.

SKILLS

• Python • SQL • Scala • GreenPlum • Vertica • PostgreSQL • ClickHouse • MySQL • Exasol • MongoDB • Trino • Spark • Hive • Kafka • KSQL • Debezium • Faust • NiFi • Airflow • dbt • SAS DIS • Informatica PC • SAP BO • Mode • Tableau • Apache Zeppelin • Superset • Redash • Metabase • Yandex Cloud • Amazon S3 • AWS • Docker • k8s • Grafana • Sentry • Git • GitHub • GitLab • Atlassian • Jira • Data Modeling • Data Architecture • Data Engineering • Data Analysis • Systems Analysis • ETL

LANGUAGES

- **Russian:** Native speaker
- **English:** B2

INTERESTS

- Running • Climbing • Snowboarding • Surfing