Iurii Chernushenko

Email: y.chernushenko@gmail.com
Mobile: +49 157 50687611
Location: Munich, Germany
[LinkedIn](), [GitHub](), [Blog]()

SUMMARY: Experienced software engineer with a focus on analytics and machine learning products. Capable of developing highly scalable solutions for processing structured and unstructured data.

RELEVANT EXPERIENCE:

Senior Data Engineer
[Block]()/[TIDAL](), Munich, Germany

January, 2022
March, 2024

Designed and developed data pipelines supporting financial and analytical streaming datasets. Led the technical aspects of Lakehouse implementation across various stages, from infrastructure setup and governance to executing logical transformations and achieving cost optimizations.

Key achievements:

- Architected Lakehouse solution (AWS + Databricks) tailored for storing Big Data datasets, with a relevant infrastructure (Terraform) for access rights management and robust governance capabilities.
- Developed streaming data pipelines (PySpark Structured Streaming) for over 100 datasets derived from event-based sources.
- Established a comprehensive structure for schema verification (Pydantic), data quality metrics and notifications.
- Implemented a streamlined workflow for dbt Core processing, integrating continuous integration and continuous deployment (Buildkite) methodologies. This workflow includes robust data quality testing and documentation features, ensuring the integrity and reliability of data solutions.

Senior Data and DevOps Engineer
[BMW Group](), Munich, Germany

May, 2018
June, 2021

Developed media repository related to manufacturing QA process artifacts (images, audio) for machine learning pipelines. Supported Machine Learning products industrialization initiative.

Key achievements:

- Designed and developed media repository on several plants in different regions (Golang, S3, Postgresql, Angular, AWS).
- Designed and supported several cloud migration projects related to manufacturing products.
- Standardized infrastructure for ML pipelines the Datalake (Cloud Formation)

Researcher

Beuth University of Applied Sciences, Berlin, Germany
[DATEXIS](#) research group

Worked on the [Fashion Brain](#) project with Zalando customer reviews dataset data. Focused on applying deep learning methods for Natural Language Processing tasks.

Key achievements:
- Wrote [publication](#).
- Created a process of labeling text data for aspect-based opinion mining (Python).
- Set up a baseline for classification problem.
- Got Kaggle competition top 10 result for similar text classification problem.

Software Engineer

April, 2016
April, 2017

[MEDIGO](#), Berlin, Germany

Support of the main company product (Golang). Developed machine learning pipeline for sales analytics.

Key achievements: designed and developed a highly-scalable data analytics pipeline of incoming customer's requests (PySpark, AWS, Databricks).

IT Consultant

July, 2010
August 2013

[Accenture](#), Russia, Moscow

Integration of CRM and core banking systems. Data migration (PL/SQL).

Key achievements:

- Embedded CRM system in Russian investment bank.
- Migrated highly sensitive financial data for two major Ukrainian banks as part of the new core banking system integration process.

IT Security Auditor

May, 2008
May, 2009

[Infosec](#), Russia, Moscow

Security auditor and penetration tester of banks according to PCI DSS.

Key achievements:

- Completed 15 on-site audits.
- Performed more than 30 security scanning.

EDUCATION:

Carnegie Mellon University, USA, Pittsburgh, PA   August, 2013
Master of Science in Information Technology – Software Engineering   August, 2014

Tomsk State University, Russia, Tomsk   September, 2003
Bachelors and Masters - Applied Mathematics and Cybernetics (Information Security and   May, 2009
Cryptography specialization)

TRAININGS:
- AWS Certified Cloud Practitioner, Munich Germany, 2021
- Coursera Deep Learning Specialization, 2018
- Deep Learning Workshop, Berlin Germany, 2017
- International Summer School on Deep Learning, Bilbao Spain, 2017
- Yandex Tolstoy Camp – IT startups camp, Russia Moscow, 2015
- Accenture Core Analyst School – USA Chicago, 2010

TECHNICAL SKILLS:
Programming Languages: Python | Golang
Data Processing Frameworks: dbt Core
Big Data: PySpark | Spark Structured Streaming | Databricks
Databases: MySQL | PostgreSQL | Elasticsearch
AWS: ECS | Kinesis | Firehose | S3 | SQS/SNS | Lambda | Glue
CI: Jenkins | Buildkite
Other: Pytest | Git | Docker | Datadog | Terraform

LANGUAGES:
Russian – Native
English – Fluent
German – Confident