Iurii Chernushenko

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Location: Munich, Germany

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

RELEVANT EXPERIENCE:

2022 - Current:

Senior Data Engineer/Tech Lead
Block/TIDAL, Munich, Germany

As a Software Engineer specializing in data pipelines, I collaborate with cross-functional teams in both Norway and the US to deliver top-tier datasets tailored for financial and analytical purposes. My role extends beyond implementation, as I take charge of defining architecture, formulating detailed implementation plans, and providing technical leadership for data solutions.

Key achievements:

- Architected a sophisticated Lakehouse (AWS + Databricks) solution tailored for storing analytical data, complete with meticulous access rights management and robust governance capabilities. This strategic design optimizes data storage and retrieval processes.
- Developed streaming data pipelines for over 100 datasets derived from event-based sources. Leveraged Spark structured streaming to ensure seamless and efficient processing.
- Established a comprehensive structure for schema verification, data quality metrics and notifications.
- Implemented a streamlined workflow for DBT Core processing, integrating continuous integration and continuous deployment (CI/CD) methodologies. This workflow includes robust data quality testing and documentation features, ensuring the integrity and reliability of our data solutions.

2018 - 2021:

Software Engineer/Project Manager
BMW Group, Munich, Germany

Product owner and engineer of media repository of manufacturing QA process artifacts (images, audio) for machine learning pipelines (golang, S3, postgresql, angular, AWS).

Manager and Architect for several cloud migration project related to manufacturing products.

Architect for Machine Learning products industrialization initiative. Defining core ML components for standardization, being part of architecture circle, develop IaC terraform scripts and guidelines.

Key achievements:

- Developed and rolled-out media repository for several plants in different regions.
- Standardized infrastructure for ML pipelines the Datalake

| 2017 - 2018: | |

Researcher
Beuth University of Applied Sciences, Berlin, Germany

DATEXIS research group. Working on the Fashion Brain project with Zalando customer reviews dataset data. Applying deep learning techniques for following NLP tasks:
- Aspect-based Opinion Mining
- Text classification
- Cross-modal distributed representations (images and text)

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

| 2016 - 2017: | |

Software Engineer
MEDIGO, Berlin, Germany

Support of main company product (golang). Product owner and developer of machine learning pipeline for sales analytics (pySpark, HDFS, AWS).

Key achievements: deigned and developed highly-scalable data analytics pipeline of incoming customer's requests.

| 2010 – 2013: | |

IT Consultant
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 new core banking system integration process.

| 2008 – 2009: | |

IT Security Auditor
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's.

TRAINING:
- 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**: Golang | Python | Javascript | Java
Data Processing Frameworks: dbt | scikit-learn | numpy
Big Data: Hadoop | Spark | Kafka
Databases: MySQL | PostgreSQL | Elasticsearch
Other: AWS | Git | Docker | Angular

EDUCATION:

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

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

LANGUAGES: Russian – Native
English – Fluent
German – Confident