

# ILYA PETRUHNOV

## Senior Data Engineer | Data Platforms | Technical Leadership

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### PROFILE

Data Engineer with 7 years of experience delivering scalable data platforms, ETL/ELT and streaming pipelines, and cloud data products. Strong hands-on expertise in Databricks, Spark, Python, SQL, Azure, CI/CD and data modeling, combined with technical leadership in platform design, onboarding, stakeholder coordination and engineering standards. Experienced in Energy and industrial environments with SAP and enterprise data integration.

### CORE EXPERTISE

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|---------------------------------------|--------------------------------------------------------------------------------------------------------------|
| <b>Data Engineering</b>               | ETL/ELT, batch & streaming pipelines, data quality, schema design, partitioning, SCD2, Delta Lake            |
| <b>Big Data &amp; Cloud</b>           | Databricks, Apache Spark / PySpark, Structured Streaming, Azure Data Lake, BigQuery, Flink                   |
| <b>Engineering</b>                    | Python, SQL, PostgreSQL, MongoDB, REST/data services, Git, GitLab CI/CD, Terraform, Databricks Asset Bundles |
| <b>Orchestration &amp; Delivery</b>   | Apache Airflow, Azure Data Factory, Dagster                                                                  |
| <b>Leadership &amp; Collaboration</b> | Technical ownership, onboarding & knowledge sharing, stakeholder management, architecture discussions        |
| <b>Domain</b>                         | Energy / utilities, SAP Plant Maintenance / EAM, IoT, workforce-management data products                     |

### PROFESSIONAL EXPERIENCE

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| <b>Data Engineer</b>   E.ON Digital Technology, Essen                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <b>Aug 2024 – Present</b>  |
| <ul style="list-style-type: none"><li>Own data-engineering solutions on Azure Databricks for energy-grid and workforce-management use cases, from ingestion and transformation through production deployment and downstream consumption.</li><li>Designed and built pipelines that aggregate and model SAP Plant Maintenance / EAM data for grid assets, providing structured and reliable datasets for business and application consumers.</li><li>Built the data-platform infrastructure for a Workforce Management initiative on the internal iPEN platform and onboarded engineering colleagues to the solution and delivery processes.</li><li>Coordinate across BTP application, testing, platform and source-system teams to define interfaces, access patterns, testing paths and transparent data flows between Databricks and consuming applications.</li><li>Contribute to the design of a Ghost Order Generator service using historical HR, EAM, weather and disruption data to support annual workforce planning and future ML-based forecasting.</li><li>Developed automated data-quality workflows to identify and report master-data inconsistencies, improving reliability and governance of operational datasets.</li><li>Restructured team repositories and CI/CD practices; use GitLab CI/CD and Databricks Asset Bundles to standardize deployments and environment management.</li><li>Drive knowledge sharing through documentation, technical sessions and onboarding across multiple stakeholder groups.</li></ul> |                            |
| <b>Data Engineer</b>   Vaillant Group, Remscheid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <b>Sep 2019 – Jul 2024</b> |
| <ul style="list-style-type: none"><li>Built and operated a near real-time IoT data pipeline using Apache Spark Structured Streaming for high-volume device data.</li><li>Developed monitoring and alerting capabilities that improved pipeline reliability and reduced operational downtime.</li><li>Designed ETL/ELT processes that consolidated and conformed company-wide metrics from Salesforce, Google Analytics and Mailchimp into a unified analytics view.</li><li>Collaborated with analysts and business stakeholders to make curated data accessible and usable for reporting and decision-making.</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                            |

### EDUCATION & CERTIFICATIONS

**MBA** — Technische Universität Bergakademie Freiberg, Germany | 2016 – 2019

**Bachelor of Engineering** — National Mineral Resources University, St. Petersburg | 2012 – 2016

- Databricks Certified Data Engineer Professional
- Databricks Certified Associate Developer for Apache Spark 3.0

### LANGUAGES

German | English | Russian