

Anfisa Cullins

Greater Philadelphia, PA

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Technology leader with expertise in Data, AI, and cloud platform transformation for Healthcare and Life Sciences. Trusted advisor to C-level executives, driving enterprise modernization, AI adoption, and large-scale digital transformations.

Professional experience

ConcertAI, Plymouth Meeting, PA

Head of Engineering, Sr Director

2025 – 2026/07

Platforms: AWS/Azure, Databricks, Snowflake, Unity, Power BI, native React.

- Led modernization of legacy healthcare data pipelines to **Databricks**, reducing processing costs by **40%**, accelerating new-client implementations by **2x**, and creating an AI-ready foundation for ML and GenAI products.
- Built and managed engineering teams delivering production GenAI and agentic solutions using **Amazon Bedrock and LangChain/LangSmith**, integrating LLMs with healthcare data, APIs, and application workflows.
- Provided technical and architectural leadership and helped define the future-state Agentic AI architecture, including prototyping **MCP-based agent/tool integration, for commercial products** supporting patient/provider intelligence and life sciences commercial workflows.
- Partnered with Product, Engineering, and Analytics on AI architecture, governance, observability, security, and production scalability.

Healthverity, Philadelphia, PA

VP, Data Platform and Data Product Engineering

2022 - 2024

Data Platforms: AWS, Databricks, Unity Catalog, RDS Aurora. Hands-on SQL, Python, PySpark.

- Architected and led modernization from legacy service-based architecture to a **multi-tenant Databricks Lakehouse platform**, supporting nearly **100 healthcare data suppliers** and individual datasets up to **200 TB**.
- Automated **60–70% of data onboarding** using ML/NLP-based data mapping and reusable pipelines, reducing supplier onboarding from **6 weeks to 2 weeks**, with human-in-the-loop validation for mapping and data quality controls.
- Reduced infrastructure costs by approximately **50%** through workload tagging and optimization; introduced **incremental processing and CDC** to further reduce compute.
- Established platform engineering standards including CI/CD, automated testing, data governance, lineage, observability, and reusable data products, improving scalability and operational reliability.
- Implemented MLOps pipeline and feedback loop into ML algorithms as new data feeds are being onboarded.
- Talk “Automating Sensitive Data (PII/PHI) Detection and Quarantining to a Databricks Clean Room” on Databricks “Data + AI” conference; June 2023.
- Webinar “How Healthverity Automates Data Pipelines to Low Code”; March 2023.

Biotelemetry, Malvern, PA, (Acquired by Phillips in 2021)

Director, Data Strategy

2021 - 2022

Data Platforms: AWS, Redshift, RDS, Data Lake, AWS Glue catalog.

- Designed and managed implementation of the ECG Data Lake that supports real-time analytics and Data-driven ML diagnostic. Implemented medical-grade AI based on deep learning technology that interpret the whole ECG. Algorithms detects more than 20 types of main arrhythmias events.

IQVIA, Plymouth Meeting, PA

Director, Technical Architecture

2012 – 2021

Director, Advance Analytics

2011 – 2012

SME in Pharmacy and Medical Claims, Hospital Charge Master data, Lab data, Consumer data, EMR.

Data Platforms: on prem Hadoop, Cloudera CDK, Azure cloud, Oracle, MS Server, Power BI

- Led the transformation of IQVIA's **5+ PB U.S. longitudinal patient data ecosystem**, creating the foundational big-data platform powering patient-level data products and analytics across IQVIA's U.S. life sciences business.
- One of the Inventors of the patented longitudinal data structures that transformed complex **patient cohort analysis from up to 6 weeks to near real-time**, enabling interactive cohort definition and dramatically accelerating pharmaceutical analytics (U.S. Patent 11,615,869).

- Built an **AI-ready data foundation** enabling data science teams to develop and scale ML models across large-scale healthcare datasets and patient/provider analytics.
- Led engineering and advanced analytics teams across the **U.S., India, and Poland**, supporting enterprise data products across pharmacy, medical, hospital, lab, EMR, and specialty healthcare data.
- Served as a healthcare data and analytics SME, designing platforms and methodologies supporting patient journeys, market share, source of business, persistence/compliance, physician targeting, outcomes research, and other pharmaceutical analytics.

SDI, Surveillance Data, Inc., Plymouth Meeting, PA (*Acquired by IQVIA / IMS in October 2011*)

Associate Director, Data Analytics and Services

2008– 2011

Data Developer

2005 - 2008

SME in APLD methodology, custom SQL coding

Data Platforms: Oracle, SAS, MS Server, Power BI

- 10+ years of experience working with multi-channel patient-level data (prescription data, medical data, hospital data, EMR, specialty data) stored in multi-terabyte data warehouse on different technical platforms – Oracle, SQL Server, SAS.
- Managed development group; monthly operations volume up to 300 custom projects across different practice areas. Hands on technical professional; led data investigations; provided expertise on business methodology and technical analysis. Contributed to various stages of operational flow, from pre-sales – providing turnaround time, analytical expertise and feasibility support to post-delivery follow-up, answering client questions

Education

State University, Minsk Belarus, applied math.

DPT Business school, Philadelphia, computer science. GPU 4.0

Languages

English: fluent

Russian/Belorussian: native

Polish: comprehend