

# Bogdan Balikhin

## Engineering Manager

Birthday: January 20, 1977

Marital Status: Married

Languages: Russian, English

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### Professional Summary

Seasoned technology leader with over **25 years of experience** across the full software development lifecycle, spanning both **technical and managerial roles** in high-impact projects. Demonstrated expertise in **leading engineering teams**, driving architectural decisions, and managing end-to-end project delivery in fast-paced, high-load environments. Adept at aligning engineering initiatives with business goals through close collaboration with stakeholders and cross-functional teams.

With a strong foundation in **data architecture, backend development**, and performance optimization, I bring a hands-on approach to solving complex technical challenges. My background includes extensive work in **designing scalable, high-throughput data systems**, leading enterprise data platforms, and mentoring talent across various industries including **healthcare, finance, media, retail, and blockchain**.

### Core Skills and Competencies

- **Engineering Leadership:** Proven ability to lead, mentor, and grow high-performing engineering teams; experience onboarding new developers and guiding career progression.
- **Project & Resource Management:** Skilled in project planning, execution, and resource allocation to deliver complex software systems on time and to specification.
- **Technical Expertise:**
  - Backend and data systems architecture with a focus on **high-volume processing and massive parallelism**
  - Advanced **data modeling techniques:** Inmon, Kimball, Data Vault, Anchor Modeling, Data Lake, Lakehouse, and Data Mesh
  - Backend and data engineering with **Python, PySpark, Kafka**, and **streaming/batch data flows**
- **Data Platform Design & Optimization:** Deep knowledge in **Data Warehouse and Database design**, administration, and **performance tuning** using tools like Amazon Redshift, Azure Synapse Analytics, SQL Server, PostgreSQL, MySQL, CosmosDB, MongoDB, ClickHouse and more.
- **Cloud & DevOps:** Hands-on experience with **AWS, Azure** and orchestration tools such as **Apache Airflow**, with familiarity with **Kubernetes** in data-centric deployments.
- **Business Alignment & Strategy:** Strong communication skills with the ability to translate complex technical concepts for stakeholders; experienced in business and system analysis to align engineering outcomes with organizational objectives.

### Career Highlights

- **2018–2025: Team Leader & Data Architect** – Led cross-functional team and designed cloud-based data platforms in healthcare and finance.
- **2017–2020: Business/System Analyst** – Delivered blockchain-based financial solutions with a focus on stability and scalability.
- **2015–2016: System & DWH Architect** – Engineered high-performance investment data platform.
- **2013–2016: Lead Data Engineer** – Built and optimized advertising analytics platform processing billions of events.
- **2010–2013: Team Leader & DWH Architect** – Led data modernization efforts in finance and education sectors.
- **2006–2010: Director of IT Department** – Oversaw full-stack IT operations in retail; introduced data-driven decision-making.
- **2002–2005: Director** – Led transformation and automation initiatives in HR services.
- **2000–2002: System Administrator** – Early career in systems management and support in retail.

## Experience:

### Team Leader of DBA team

[Nuvem](#) (340Basics) (USA, remote, Healthcare area)

November 2018 – February 2025 (6 years 3 months)

Led the DBA team and coordinated closely with the Product Owner to define and drive the roadmap for company-wide data architecture and integration processes. Oversaw the modernization and optimization of legacy systems, ensuring stable and high-performance database operations. Designed and implemented the overall **enterprise data architecture** (in the absence of a dedicated Data Architect role), optimized ETL/ELT workflows, developed the corporate **data warehouse**, initiated migration to NoSQL technologies, and led the design of a scalable **Data Lake**.

Performed projects:

- Building reporting **Data Warehouse (DWH)** based on Azure **Synapse Analytics**;
- Migration **data integration pipelines** from SQL Server **Integration Services (SSIS)** to **Azure Data Factory (ADF)** with implementing schema-independent solution, based on Microsoft SQL Server **Change Tracking (CT)** technology;
- Designing **streaming data integration pipelines** using **Azure Functions** and **Azure SQL triggers**;
- Realizing **Service As a Code (SaaS)** approach using **Terraform** and **ARM Templates** to deliver database servers, data pipelines, Azure Functions, etc. withing CI/CD pipelines;
- Migration **CI/CD pipelines** from Jenkins to **Azure DevOps**;
- Improving **security** by using **Azure Key Vault** and **Azure Managed Identities**;
- Building **Data Lake** using **CosmosDB**, Azure **Data Lake Storage Gen2 (ADLS Gen2)** (including **Parquet, Avro, Delta Lake, JSON**), Azure **Synapse Analytics** (serverless SQL polls), **Spark** notebooks, **Databricks**;
- Supporting migration from SQL Server **Reporting Services (SSRS)** to **Power BI**;
- Delivering security and **data governance** reports using **Purview**, implementing **encrypting** of sensitive data;
- Building **monitoring** system based on Azure **Log Analytics**;
- Migration database maintenance automation tasks from **Azure Automation Accounts** and **Logic Apps** to **Elastic Jobs**;

Technologies: Microsoft SQL Server, Azure SQL Database, Azure Data Factory, Azure Functions, Data Lake, Databricks, Spark, Synapse Analytics, Cosmos DB, Terraform, Purview, Parquet, Avro, Delta Lake, Power BI.

### Business and System Analyst

SolarLab (Russia, remote, Banking area)

October 2017 – May 2020 (2 years 8 months)

Conducted business and system analysis for a national blockchain-based financial transaction platform supporting mobile e-wallets, peer-to-peer money transfers, bank integrations for deposits and withdrawals, in-app purchases via messengers, interbank clearing, and cross-border transactions. Collaborated closely with stakeholders to prioritize initiatives and enhancements.

Maintained continuous alignment with Product Managers, Product Owners, Development, and QA teams. Prepared comprehensive documentation and managed requirements to minimize knowledge gaps and reduce operational dependencies.

Technologies: Blockchain, Ethereum, Hyperledger, Smart Contracts, Microsoft Azure.

## Streaming Data Engineer

[covered by NDA] (France, remote, IoT)

April 2017 – September 2017 (6 months)

**Streaming Data Processing** in Team Sports area and developing a system prototype to stream process and transfer sport events data between two systems APIs: REST API → ETL pipelines → REST API

Technologies: **Streaming Data Processing, MuleSoft Data Integration, REST API, IoT.**

## System and DWH Architect

[Shakuro](#) (USA, remote, Financial Investments area)

June 2015 – June 2016 (1 year)

Architected and led the development of an end-to-end system for collecting, processing, and performing statistical analysis of venture investment data from diverse sources. The solution encompassed data collection (including web scraping), ETL workflows, a centralized Data Warehouse, OLTP databases, BI tools, and a user interface for data management. Personally designed the system and data processing architecture, developed the DWH and OLTP schema, and actively participated in implementing ETL pipelines and core components of the platform.

Technologies: Amazon **Redshift** DWH, **PostgreSQL, MongoDB, JSON, Amazon S3**, ETL: **Talend Data Integration**, WEB-scraping: **Python**, BI: Periscope, Amazon AWS.

## Lead Data Engineer

[Adotube](#), an Exponential division (USA, remote, Online Media Advertising area)

June 2013 – November 2016 (3 years 5 months)

Developed and evolved a large-scale system for collecting, processing, and performing statistical analysis of online media advertising events. The system transitioned from an initial Redis and MySQL-based architecture to a Hadoop ecosystem with Hive and Impala for enhanced scalability. BI and reporting were delivered via Logi Analytics.

### Key responsibilities:

- Designed, implemented, and optimized end-to-end data processing pipelines — from data ingestion to generation of business-critical metrics — using SQL ELT, Java MapReduce, HiveQL, and Spark.
- Collaborated with business users and product managers to formalize BI requirements and identify necessary data sources in coordination with development teams.
- Designed data warehouse models aligned with source systems and business needs, and developed analytical reports.
- Optimized batch processing in Hadoop, SQL procedures, and BI report logic to ensure high system performance and reliability.
- Provided comprehensive problem-solving support throughout the entire data lifecycle — from data ingestion to final delivery for business consumption.

Technologies: **Hadoop, Hive, HiveQL, Spark, Impala, MySQL**, Logi Analytics, **Redis**, Amazon AWS, Java.

## Team Leader of Database Developers Team

[SoftServe](#) (Russia, office, Banking area)

August 2010 – March 2013 (2 years 8 months)

Led the **data architecture** and development of a large-scale enterprise system aimed at optimizing core business operations for a financial services company. The solution leveraged Oracle Enterprise Service Bus, .NET, SOA architecture, Microsoft SQL Server 2008 and Microsoft SharePoint.

### Key responsibilities:

- Designed and implemented the **architecture of both operational databases and the enterprise data warehouse**.
- Performed business intelligence analysis to support decision-making and reporting needs.
- Developed an automated system for database deployment and updates, utilizing Microsoft Visual Studio Database Projects and custom PowerShell scripting.
- **Managed a team of developers**, ensuring timely and high-quality delivery of architectural components.

Tools & Technologies: Oracle ESB, MS SQL Server 2008, SSIS, .NET, NHibernate, JMS, TFS, Hudson, PowerShell, MS Visual Studio Database Project.

## Team Leader of ETL Team

[SoftServe](#) (USA, remote, Education area)

August 2010 – March 2011 (8 months)

Led the **data architectural** design and development of a large-scale data warehousing and analytics solution aimed at evaluating student performance and supporting data-driven decision-making in the education domain. The platform was built on **Talend Data Integration, MySQL**, and Linux.

### Key responsibilities:

- Participated in design of the overall Data Warehouse architecture to consolidate and analyze data from multiple heterogeneous sources.
- Evaluated and selected modern ETL approaches to ensure scalability, performance, and maintainability.
- Developed the end-to-end data processing architecture, including ETL pipelines and data models.
- Actively participated in the design and implementation of core components.
- **Managed a cross-functional development team**, overseeing technical execution and delivery.

Tools & Technologies: MySQL 5, Talend Open Studio, Java, Linux, SVN, Jira, Rally.

## Director of IT Department

Maximum Ltd. (office, Retail area)

November 2006 – July 2010 (3 years 9 months)

Served as Director of IT Department at a major retail company, overseeing the full spectrum of IT operations and infrastructure to support business growth and operational efficiency across a distributed network of stores and supermarkets.

### Key responsibilities:

- Provided strategic and operational leadership for the company's IT infrastructure and services.
- Defined and implemented the company's IT vision, standards, and technology roadmap.
- Managed resource allocation, task prioritization, and information flow within the IT department.
- Negotiated and managed contracts with vendors and service providers to ensure scalable and reliable infrastructure aligned with business objectives.
- Led the recruitment, onboarding and development of IT personnel.

- Designed, deployed, and maintained a geographically distributed IT network across multiple retail locations.
- Oversaw the planning and execution of key IT projects, ensuring timely delivery and alignment with business needs.

Tools & Technologies: Active Directory, Domain, MDaemon Mail Server, PowerShell, Network Technologies, MS SQL Server 2000, 1S: Enterprise 7.7, MySQL, IDEF0, ISO 9000:2000, ERwin Process Modeler, SAP Business One.

## **Previous experience**

1999 – 2006

- Director (non IT-company)
- System Administrator (Windows, Linux)
- DBA (Microsoft SQL Server, MySQL)
- WEB-developer (Perl, PHP, MySQL, JavaScript)

## **Education**

### **National State Technical University**

Specialist, Microelectronics and semi-conductor devices  
1994 – 1999