

# Alexander Bessonov

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## Skills

Actor Model  
Apache HBase  
Apache Hadoop  
Apache Spark  
Business Analysis  
Business Intelligence  
Data Analysis  
Data Integration  
Data Migration  
Data Mining  
Data Quality  
Data Warehousing  
Databases  
ETL  
Graph Processing  
Logical Data Modeling  
Machine Learning  
Master Data Management  
Natural Language Processing  
NoSQL  
Performance Tuning  
Python  
R  
SQL  
Scala  
Teradata  
Text Mining

## Education

### Moscow Power Engineering Institute (Technical University)

Master's degree: Electronic Systems  
2006  
Thesis Topic: Automatic number plate recognition.

### Additional Coursework

Machine Learning  
Data Analysis  
Statistics  
Computing for Data Analysis  
MongoDB for Developers  
Natural Language Processing  
Image and Video Processing  
Social Network Analysis  
Credit Risk Management  
Computational Investing  
Real-Time analytics with Apache Storm  
Data Visualization and D3.js  
Functional Programming Principles in Scala  
Principles of Reactive Programming  
Algorithms

- Technical Lead for multiple client-facing projects.
- Presenter at Teradata conferences and Data Science user groups.
- Certified Teradata Solutions Developer.
- Experienced in performance tuning, physical data modeling, data cleansing and data visualization.
- Received appreciation and recognition award from Fortune 500 company.

## Employment

### Syntel

#### Data Scientist/Data Engineer

Apr 2015 to Current

*Client: Credit Suisse*

- Built and deployed models to forecast various time-series data.
- Led development of HBase-based graph database and RESTful microservices utilizing the database and Cloudera Search (Solr).
- Led development of streaming graph visualization web app (based on D3.js, Sigma.js and Oboe.js).
- Designed and implemented entity resolution algorithms and frameworks for SNA project using Apache Spark GraphX.
- Implemented R and Python packages to help data analysts to obtain required data.
- Implemented frameworks to run R and Python code on Hadoop cluster.
- Implemented web scrapers for structured and semi-structured data.
- Deployed several external data acquisition pipelines.

### EXL Service

#### Manager, Decision Analytics

Jul 2014 to Apr 2015

- Developed complex Alteryx analytic application to model Return on Advertising Spend using Alteryx, R and Tableau.
- Implemented report generation framework.
- Performed text-mining on insurance claims data using Revolution Analytics R and Python.
- Developed streaming data processing pipeline in Python.

### Teradata

#### Advanced Analytics Consultant

Jul 2011 to Jul 2014

*Data Analytics Projects*

Technical presales consultant for Teradata data analytics solutions: Teradata Aster, Teradata in-database analytics using R.

- Implemented several Proof-of-Concept solutions, some of which led to sales, for different customers:
  - Market basket and customer behavior analysis for retail customer;
  - Text mining in social network for credit scoring and bank's customers segmentation;
  - Telco's subscribers segmentation algorithm using statistical computing language (R) and in-database calculations on Teradata.
- Organized internal knowledge-sharing sessions to advocate data analytics products and possible catch-points within the organization.
- Revived the Teradata's in-database analytical solution (teradataR) by fixing and updating its code.
- Reverse-engineered and documented telco's legacy code for churn-prediction solution using Neo4j graph database.

*Multiple Data Warehouse implementation projects*

*Client: Sberbank, Russia*

- As part of a Master Data Management (MDM) initiative, replaced a set of scattered, manually executed scripts with an automated process to improve data quality by addressing communication bottlenecks and execution errors with the manual process.
- Spearheaded implementation of a MDM migration project growing Teradata recognition along with bringing additional \$200k in revenues.
- Automated data quality reporting by re-implementing Data Quality Management (DQM) solution.
- Maintained ERwin data model for MDM solution.
- Made changes in physical database design to improve query performance.
- Implemented stored procedures-based framework for DQM.

### Accenture

#### Senior Programmer → System Analyst → Senior System Analyst

Feb 2007 to Jun 2011

*Client: Intesa Sanpaolo, Russia*

- Assigned as an Application Developer for newly introduced Temenos T24 system. Quickly gained necessary knowledge to successfully lead a team of five developers to implement new system.
- Migrated data from legacy banking systems to Temenos T24 solution and achieved significant improvements in system performance by optimizing queries and tuning databases to handle the increased data volumes.
- While maintaining the system, I also worked with different partners to collect requirements and translated them into Statements of Work. These were then implemented as product features by my team and peer teams.
- Designed a set of frameworks to integrate Temenos T24 with WebSphere MQ. This resulted in unification of the project's code base and decreased code complexity which further increased system performance.

### Rosbank (Societe Generale Group)

#### Programmer

Nov 2005 to Jan 2007

- Developed several C and Pascal applications for Mysis Equation core banking system.

## Personal Projects

- Developed cloud-based fraud-detection application using test-driven development approach with following stack: Neo4j, PostgreSQL, Redis, Python, python-cubes (OLAP), Flask, AngularJS.
- Implemented several web-scrapers to extract media resources, user profile information, product prices, URLs etc. using MongoDB as a database.
- Created video downloader for popular MOOC site (80+ stars on GitHub).