

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

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 and presented to different clients several Proof-of-Concept solutions some of which led to sales:
 - Market basket and customer behavior analysis for retail customer;
 - Text mining of social network data for credit scoring and bank's customers segmentation;
 - Telco's subscribers segmentation algorithm using R and in-database computations on Teradata.
- Facilitated knowledge-sharing 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.
- Implemented legacy code navigation tool using graph database (Neo4j) as metadata-store.
- Implemented ETL workflow to load XML files into Teradata Aster with help of Hadoop.
- Implemented serialization functions to use in Hive queries.
- Designed architecture for real-time credit scoring, which included Hadoop, Apache Storm and Teradata Aster.

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 increasing 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 stakeholders 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).