



Andrey K.

Senior Data Engineer



Professional summary

Results-oriented professional with 10+ years of experience in DWH/ETL/BI, including 4+ years in Python. Skilled in AWS (Lambda, MWAA (Airflow), Redshift, S3, EMR, CloudWatch, EC2, RDS). Andrey has deep expertise in writing SQL queries, stored procedures, functions, triggers as per the business needs. Possesses a set of skills that applies in evaluating of various development approaches and problem-solving. His super power is establishing good working relationship with colleagues, motivating a team to perform better results.

Education	Francisk Skorina Gomel State University, Belarus - Information Technologies, Bachelor's Degree
Certificates	IBM Certified Developer - Cognos 10 BI Metadata Model Developer, Mar. 2013 IBM Certified Database Associate - DB2 9 Fundamentals, Nov. 2012 IBM Certified Developer - Cognos 10 BI Developer, Oct. 2011
Skills	Python, Java, JavaScript AWS (multiple services) Apache Airflow (MWAA), Snowflake SQL, DB2, Teradata, Postgres, MS SQL Server, Informatica HTML, CSS Cognos, BI JSON, jQuery, jQuery UI, AJAX Tornado, Tableau, QlikView, Denodo Git Scrum

Project	Arteza
	Project is aimed at creating DL/DWH/ELT and data engineering support for the sales services
Period	Jun 2020 - now
Role	Senior Data Engineer
Technologies	Python 3, Apache Airflow, Amazon Web Services (Redshift, Data Pipeline, MWAA, Snowflake, S3, EMR)

Responsibilities

- Designed the architecture of a data lake and data warehouse for the organization based on its business needs;
- Developed and maintained ELT solutions (pipelines);
- Created scheduled data extracts using AWS Redshift/Data Pipelines/MWAA (Airflow);
- Led PoC for Snowflake to decide about moving some of high-load data processing operations from Redshift to Snowflake, interacted with Snowflake consultants through a series of knowledge transfer sessions;
- Developed some Python applications for internal purposes (python3):
 - a) RePricer tool (designed to load, monitor, and rapidly change several types of prices of 2000+ SKUs in Amazon, Walmart and Target marketplaces: GoogleSheets + API);
 - b) Customer Service tool (designed to store, update, and analyze a whole set of Arteza customers (similar to Customer360 View));
- Fixed bugs;
- Wrote technical documentation (specifications, run-books, user guides);
- Participated in daily stand-ups, retro meetings, planning sessions.

Project	NDA
	Project is aimed at creating DWH and data engineering support for the insurance services
Period	Aug 2018 – Jun 2020
Role	Senior Data Engineer
Technologies	Python 3, AWS (Cognito, EC2, API Gateway, CloudWatch, Route 53, Lambda, S3), Terraform, Bash scripting, GoCD Pipelines, SQL Server Management Studio, Microsoft Visual Studio, Aginity, Git, JIRA, SharePoint, Notepad++, SQL Server Data Tools, CI

Responsibilities

- Developed and maintained ETL solutions;
- Created data extracts based on AWS Redshift/Data Pipelines;
- Data infrastructure development and deployment;
- Python applications development for internal purposes (python3, Flask):
 - a) getting data from Redshift and pushing it to Kafka saving the data in S3;
 - b) running SQL queries to monitor the performance of database using Grafana to present the information about the locks;
 - c) creating of web app to allow users from different departments getting confidential customer data.
- Fixed bugs;
- Wrote technical documentation (specifications, run-books, user guides);
- Prepared technical demos, presented it to customers;
- Participated in daily meetings, retro meetings, business trips.

Project	NDA
	Project is aimed at creating reporting and data visualization solution for an American stock transfer company as external service for customers
Period	Mar 2017 – Jul 2018
Role	Senior DB Developer/DB development team lead
Technologies	Java, Microsoft SQL Server, DB2 AS400 SQL Server Management Studio, Microsoft Visual Studio, Git, TotroiseGit (client), Denodo Virtual Data Port, Squirrel, JIRA, SharePoint, Notepad++ Denodo, SQL Server Data Tools, CI

Responsibilities

- Created data virtualization layer objects (wrappers, base tables, views, java procedures) using Denodo data virtualization platform;
- Created DB objects (Microsoft SQL Server) of ISP database;
- Prepared scripts for CI;
- Prepared deployment scripts for deploying to customer's environments;
- Fixed bugs;
- Managed DB team (tasks planning and delegation, day-to-day operations overseeing, resolving issues or conflicts between members, performing knowledge transfer for newcomers, interviewing candidates);
- Prepared data sources specifications;
- Participated in daily meetings, retro meetings.

Project	NDA
	Project is aimed at creating reporting (Cognos BI) and ETL solution (Informatica) for an American retail company
Period	Feb 2016 – Mar 2017
Role	Senior BI Engineer
Technologies	Teradata, IBM Cognos 10 Report Studio, IBM Cognos 10 Framework Manager, Teradata SQL Assistant, Informatica 9.1, Cognos BI, Informatica, SQL
Responsibilities	
<ul style="list-style-type: none"> • Created and maintained Cognos model (DMD Sales); • Created different types of Cognos reports (lists, crosstabs, charts); • Worked on SQL development tasks (Teradata): <ul style="list-style-type: none"> a) Created jobs to load data between different sources b) Modified existing jobs and scripts c) Created views in database for Cognos needs • Modified ETL jobs (Informatica); • Created user and technical documentation; • Worked with users to teach them how to build the reports through training sessions, also gathered the requirements from them for new reports/model logic; • Created test scripts based on corresponding test plans. 	

Project	NDA
	Project is aimed at creating reporting for an American pharmaceutical company
Period	Oct 2015 – Jan 2016
Role	Senior BI Engineer
Technologies	JavaScript, HTML, CSS, Oracle, Cognos 10 BI Framework Manager, Cognos 10 BI Report Studio, Oracle SQL Developer IBM Cognos 10 BI, IBM DB2

Responsibilities

- Created different types of reports based on user requirements;
- Modified existing reports;
- Invented approaches to satisfy user needs over Cognos basic functionality;
- Worked on reports performance optimization;
- Implemented different UI features such as crosstab/list column header freezing, CSS-styling, dynamic sorting by JavaScript without report re-running;
- Wrote test-cases for the reports (SQL scripts to test a data);
- Tested the reports;
- Created technical and testing documentation.

Project	IBM
	A solution that helps organizations to manage their businesses at an account level and therefore reducing revenue loss, increasing churn, etc
Period	May 2014 – Sep 2015
Role	Senior Software Engineer
Technologies	JavaScript, HTML, CSS, IBM DB2, Cognos 10 BI Framework Manager, Cognos 10 BI Report, Query, Analysis, Event Studios, Cognos Workspace, Workspace Advanced, IBM Cognos Cube Designer, JavaScript, IBM InfoSphere Data Architect, IBM DB2, IBM Datastage 9.2

Responsibilities

- Did dimensional data modelling using star schema design, developed logical and physical data models;
- Analysed data;
- Consulted ETL developers, provided SQL scripts to develop and test ETL jobs;
- Designed Cognos side architecture (framework model, dashboard);
- Created and maintained OLAP cubes (Cognos PowerPlay Transformer Cubes, Cognos Dynamic Cubes);
- Designed the features of Cognos reports (created functional requirements);
- Developed stored procedures and queries for reporting purposes;
- Implemented new features of the Cognos reports (technical design);
- Found new approaches in report design to satisfy user needs;
- Managed Cognos development process (technical review, design, development, deployment, and integration of the solution);
- Created and maintained project documentation (RTVM, design documents, testing documentation);
- Did planning of development time and prioritized tasks;
- Monitored project deadlines and project compliance with technical requirements.

Project	IBM
	Data modelling and reports development for analysing application, an information panel (dashboard) IBM Cognos BI, consisting of various parts, including revenue, profit, etc. Provides a single place for business data from various financial systems. The aim of the project is to provide the user with a single set of financial statements, creating a single source of standardized and automated reports on key metrics at various levels of the company
Period	Mar 2012 – Apr 2014
Role	Software Engineer
Technologies	JavaScript, HTML, CSS, IBM DB2, Cognos 10 BI Framework Manager, Cognos 10 BI Report, Query, Analysis, Event Studios

Responsibilities

- Updated Data Models in Cognos BI in accordance with new requirements;
- Developed reports and data models;
- Designed dashboards;
- Managed role-based security for data objects, security on data levels;
- Report performance optimization;
- Collaborated with DBA to analyse and tune report queries, create indexes, views and stored procedures for write-back reports;
- Created and maintained project documentation;
- Managed the team workflow:
 - a) Distributed tasks within the team with maximum efficiency;
 - b) Consulted and helped the team members;
 - c) Trained the team to follow best practices for Cognos report development;
 - d) Solved conflict situations inside team.

Project	IBM
	Data modelling and reports development for analysing system in order to provide customers with intellectual resources of company. Application designed for the effective management of customer orders, posting of vacancies, observing the dynamics of orders for certain departments of the company
Period	Apr 2010 – Feb 2012
Role	Junior Software Engineer
Technologies	JavaScript, Cognos SDK, IBM DB2, T-SQL, Cognos 8.4 BI Framework Manager, Cognos 8.4 BI, Report, Query, Analysis, Event Studios

Responsibilities

- Updated Data Models in Cognos 8 BI in accordance with new requirements;
- Did DRM modelling for drilling Up/Down capabilities;
- Developed Reports (crosstabs, lists, charts, dashboards);
- Customized reports with conditional formatting (highlight rows in according to condition, show/hide columns);
- Extended reports using calculations (created custom columns with certain data using query calculations; indicated locales using layout calculation and so on).
- Developed output of the reports in different formats (MS Excel, PDF, XML) using JavaScript (developed method of data output with conservation of drill-up/drill-down state and data output in separate window);
- Developed drill-through capabilities;
- Developed bursting reports to different employees;
- Dashboard design;
- OLAP analysis with creation and implementation Power Play Cubes for Analysis Studio reports;
- Administration responsibilities.