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Alex K.

Data Engineer

SUMMARY

- Senior Data Engineer with a strong technology core background in companies focused on data collection, management, and analysis.
- Proficient in SQL, NoSQL, Python, Pyspark, Oracle PL/SQL, Microsoft T-SQL, and Perl/Bash.
- Experienced in working with AWS stack (Redshift, Aurora, PostgreSQL, Lambda, S3, Glue, Terraform, CodePipeline) and GCP stack (BigQuery, Dataflow, Dataproc, Pub/Sub, Data Studio, Terraform, Cloud Build).
- Skilled in working with RDBMS such as Oracle, MySQL, PostgreSQL, MsSQL, and DB2.
- Familiar with Big Data technologies like AWS Redshift, GCP BigQuery, MongoDB, Apache Hadoop, AWS DynamoDB, and Neo4j.
- Proficient in ETL tools such as Talend Data Integration, Informatica, Oracle Data Integrator (ODI), IBM Datastage, and Apache Airflow.
- Experienced in using Git, Bitbucket, SVN, and Terraform for version control and infrastructure management.
- Holds a Master's degree in Environmental Engineering and has several years of experience in the field.
- Has worked on various projects as a data engineer, including operational data warehousing, data integration for crypto wallets/De-Fi, cloud data hub architecture, data lake migration, GDPR reporting, CRM migration, and legacy data warehouse migration.
- Strong expertise in designing and developing ETL processes, performance tuning, troubleshooting, and providing technical consulting to business users.
- Familiar with agile methodologies and has experience working in agile environments.
- Has experience with Oracle, Microsoft SQL Server, and MongoDB databases.
- Has worked in various industries including financial services, automotive, marketing, and gaming.
- Advanced English
- Available in 4 weeks after approval for the project

SKILLS

Main Technical Skills	AWS, GCP (Google Cloud Platform)
Programming Languages	Python
Python Frameworks and Libraries	PySpark
Data Analysis and Visualization Technologies	Apache Airflow

Databases & Management Systems / ORM	Apache Hadoop, AWS DynamoDB, AWS Redshift, Data Lake, Google BigQuery, IBM DB2, Microsoft SQL Server, MongoDB, MySQL, Neo4j, NoSQL, Oracle Database, PL/SQL, PostgreSQL, RDBMS, SQL, T-SQL
Cloud Platforms, Services & Computing	Informatica
Amazon Web Services	AWS Aurora, AWS CodePipeline, AWS DynamoDB, AWS Glue, AWS Lambda, AWS Redshift, AWS S3
Google Cloud Platform	Dataflow, Dataproc, Google BigQuery, Google Data Studio
Scripting and Command Line Interfaces	Bash, Perl
Version Control	BitBucket, Git, SVN
Methodologies, Paradigms and Patterns	Publish/Subscribe Architectural Pattern
Virtualization, Containers and Orchestration	Terraform
Other Technical Skills	Financial Services

WORK EXPERIENCE

Senior Data Engineer, NY, USA

Duration: 09.2022 - present

Summary: Operational DWH

Responsibilities: Architect and implement the financial datasets into the Operation Data warehouse using a Snowflake architecture approach

Technologies: GCP infrastructure: VM, Storage, Big Query, Cloud SQL; Talend Cloud Data integration: modelling, DWH architecture

Senior Data Engineer, Ta'Xbiex, Malta

Duration: 09.2021 – 09-2022

Summary: Crypto Wallet / De-Fi

Responsibilities: Architect and develop the data integration framework for the IPFS data using a caching mechanism in Neo4j; Migrate the application data out of BFDB (Graph database) into the newly build Neo4j solution; Develop an ETL pipeline in AWS S3, Lambda, and Python; Architect and implement a new reporting Data Warehouse (Kimball) solution in AWS Aurora; Integrate data out of AWS DynamoDB and into Neo4j and Aurora DWH

Technologies: Neo4j, AWS S3, Lambda, Python, AWS Aurora, AWS DynamoDB



Senior Data Engineer, Accenture, Romania

Duration: 04.2021 – 09.2021

Summary: Cloud Data Hub – Core architecture team

Responsibilities: Develop AWS Glue + pyspark ingestion blueprints that become the framework for all data engineering teams; Architect a new file ingest dockerized blueprint: terraform -> SFTP -> S3 -> Glue/pyspark -> Target; Expand the Analytics blueprints: MongoDB, pyspark, terraform, docker

Technologies: AWS Glue, pyspark, terraform, MongoDB, Docker

Senior Data Engineer, France

Duration: 04.2020 – 04.2021

Summary: Data Lake

Responsibilities: Develop data ingestion pipelines using pyspark, Dataproc, Cloud Storage, BigQuery, Airflow, Cloud Build; Migrate the existing Data Lake from Apache Hadoop to GCP using Dataproc, pyspark, and BigQuery

Technologies: pyspark, Dataproc, Cloud Storage, BigQuery, Airflow, Cloud Build

Senior Data Engineer, Munich, Germany

Duration: 04.2018 - 04.2020

Summary: DWH Migration & BAU

Responsibilities: Migrate the company's EDW (data vault architecture) ETL processes from Talend into Informatica Power Center 10; Maintain and document all existing Talend ETL pipelines until they were migrated and decommissioned; QA the newly migrated ETL pipelines in Informatica Data Quality; BAU activities for the overnight ETL processing in both Talend and Informatica

Technologies: Informatica Power Center, Talend, Informatica Data Quality

Senior Data Engineer, Leverkusen, Germany

Duration: 10.2017 – 04.2018

Summary: GDPR Neo4j (graph) reporting

Responsibilities: Talend Data Integration ETL development that defines the OWL 2 RDF ontology of the graph data model (Neo4j) which will help for the GDPR queries; develop cypher statements in order to create and establish the supplied ontology and graph structure; dynamic data processing from various systems (RDBMS, Apache Hadoop, Flat files, JSON, XML)

Technologies: Talend Data Integration, Neo4j, RDBMS, Apache Hadoop

Senior Data Engineer, Nuremberg, Germany

Duration: 04.2017 – 10.2017

Summary: CRM Migration

Responsibilities: Coordinate a small team of 2 developers (myself included) and 1 QA for the following 2 projects: Extracting CRM attributes for SUN analysis from the new CRM solution; Talend Data Integration development of the customer migration and data business validation processes due to the replacement of the legacy CRM

Technologies: Talend Data Integration



Senior Data warehouse developer, Cluj-Napoca, Romania

Duration: 11.2016 – 04.2017

Summary: Legacy DWH to Data Lake migration

Responsibilities: IDP: migrating 2 legacy DWH (Oracle and MySQL) into a new AWS Redshift Data Lake; Talend Data Integration ETL development for the DWH merger using a metadata-driven ETL engine; python development for the IDP (integrated data platform) CRM milestones

Technologies: Talend Data Integration, AWS Redshift, Python

Senior ETL developer, Phoenix, AZ, US

Duration: 07.2015 – 11.2016

Summary: Mainframe migration and DWH Migration

Responsibilities: ETL migration & Pentaho data integration (PDI) to Oracle Data Integrator (ODI 11g) for the DWH processes: Design a new DWH snowflake model as the main DataHub for across the company; IBM DB2 ERP OLTP dataset normalization; PDI legacy ETL processes support (BAU); Historical reporting (SCD type 2 and Snapshot Facts)

Technologies: Pentaho Data Integration, Oracle Data Integrator (ODI 11g), IBM DB2

Senior Data Warehouse Consultant, Zurich, Switzerland

Duration: 2014 - 2015

Summary: Senior Data Warehouse Consultant

Responsibilities: Design & develop ETL & ELT processes using PL/SQL; Performance tuning; Testing new releases in DEV and UAT environments; Preparation of release packages for Production; Answering Ad-Hoc queries and providing technical know-how for the business users

Technologies: PL/SQL

Senior Data Warehouse Developer, Gibraltar

Duration: 2013 - 2014

Summary: Senior Data Warehouse Developer

Responsibilities: Developed ETL & ELT processes using Oracle ODI using the Kimball methodology; Designed and developed objects using Oracle Warehouse Builder 10g; ETL development using Oracle Data Integrator (ODI) and Microsoft SSIS; Development and BAU for Microsoft OLAP Cubes (MDX queries) and Microsoft SSAS Tabular

Technologies: Oracle ODI, Oracle Warehouse Builder 10g, Microsoft SSIS, Microsoft SSAS

Senior Data Warehouse Developer, Cluj-Napoca, Romania

Duration: 2012 - 2013

Summary: Senior Data Warehouse Developer

Responsibilities: Design & develop new business functionalities in an agile environment; Develop, monitor and maintain warehouse critical alerts and processes; Write and maintain functional and technical specifications; Monitor, optimize and troubleshoot database and cube performance

Technologies: Oracle ODI, Oracle Warehouse Builder 10g

Database Developer, Cluj-Napoca, Romania

Duration: 2011 - 2012

Summary: Database Developer

Responsibilities: Design & develop new ETL processes and integrate them into the existing



model using OWB 10g; Develop stored procedures using the ORM method, which are called from .Net by the AR module; Develop business reports in an Oracle Applications 11i environment, using Oracle Reports 6i; Develop ETL/ELT processes in OWB and Microsoft SSIS

Technologies: OWB 10g, Microsoft SSIS

Oracle DBA, Timisoara, Romania

Duration: 2010 - 2011

Summary: Oracle DBA

Responsibilities: Database administration on different versions: 8i, 9i, 10g, 11g, 11R2; Design and document existing database architecture; Provide periodically On-Call support for critical situations within the SLA response & resolve time; Implement and use various methods of connectivity and tunneling through the VPN; Apply Oracle CPU Updates on a regular basis, in accordance with their release dates

Technologies: Oracle DB

Junior Database Developer, Oradea, Romania

Duration: 2009 - 2010

Summary: Junior Database Developer

Responsibilities: Develop Functions, Triggers, Stored Procedures, Indexes, and Views; Microsoft SSIS - ETL development; Data management and architecture of all the DB servers; Monitor the replication status of our distribution database and to all our subscribed databases; Define and implement administrative procedures for billing endorsement, cash books, etc.

Technologies: Microsoft SSIS

Junior Database Developer, Oradea, Romania

Duration: 2008 - 2009

Summary: Junior Database Developer

Responsibilities: OLTP - ETL development using Microsoft SSIS and SqlServer Transact-SQL; Developed BI reports using Microsoft SSRS; Ensure that services under your responsibility are delivered according to the Service description; Data planning, development, deployment and administration; Ensure components supported are maintained, optimized and used effectively

Technologies: Microsoft SSIS, Microsoft SSRS

EDUCATION

- **University of Oradea**

Master's degree Environmental Engineering
2009 - 2012

- **University of Oradea**

Graduate's degree Environmental Protection
2005 - 2009

- **High School "Lucian Blaga"**

Information Technology
2001 - 2005

