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Data Engineer/Architect
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OBJECTIVE: Looking for engagements as data engineer/architect and database programmer. A change in career focus from application development.

SUMMARY: During my over 20 years of experience in software I have mostly worked in the interface of applications to data repositories. I have extensive knowledge of databases, data modeling and programming languages serving application software and data. I have worked with large and complex datasets and have strong problem-solving and analytical skills as well as excellent communication and collaboration skills.

TECHNOLOGIES AND TOOLS:

Relational Data stores (RDBMS): PostgreSQL, SQL Server, Oracle, MySQL

Non-relational Data stores: Redis, Couchbase, Elastic Search

Queuing storage: Apache MQ, Kafka, Azure ServiceBus, Oracle AQ

Data Warehousing: Snowflake, Databricks

Data modeling and programming: ER, SQL, ORM, JSON, XML, transactions

Database management: SQL DDL/DML, Liquibase, Flyway

Cloud: Azure, Azure Data Factory, AWS, EC2, S3

Analytics: ELK, Dynatrace, Splunk

Application languages and platforms: Java, Spring Framework, Python/Django, Javascript/NodeJS, C#/NET, C/C++

EXPERIENCE:

2020-24 Launch Consulting - software/data engineer

Configured and maintained a replication setup for SQL Server DBs into managed SQLServer DB in Azure

Data modeling work supporting application for monitoring progress of construction jobs

SQL programming views and stored procedures to facilitate application interacting with the tables of the hybrid DB

Bootstrapping the initial DB system using binary copy operations

Managing data and schema changes using Liquibase

Data model for managing long-running queries producing large datasets

Application code to generate custom SQL queries

Programming Azure Data Factory to perform queries against external databases and send results in multiple formats to various destinations

2016-20 Level11 Consulting - software engineer

Devised data model and implementation of a CMS system to complement location and wayfinding services

Application using DB transactions to form batches for printing/engraving/packaging/shipping production line

Devised principles of data synchronization between temporarily separated repositories – cruise ships at port and at sea

Data model and application architecture work for system collecting health info for hospitality systems

2014-16 Softsource Consulting - software architect

Devised a method of dynamically extending DB schema by means of JSON column to support a user feature

2010-14 Tweddle/Nuance - software engineer

Worked closely with DB team negotiating suitable interface for the application

Interactions between MQs and the DBs using Apache MQ and OAQ (Oracle queue in the DB)

Devised a logging system based on Redis queue storage

2008-10 Marchex - software engineer

Data modeling for advertising websites to verify audience interactions (impressions, engagements and follow-thru)

Reporting queries: counting valid clicks (ignoring double clicks and detecting malicious activities)

2006-8 CDG/Boeing - software engineer

Complex DB operations controlling publication of fragments of airplane documentation

Long running transactions with savepoints; DB updates needed to be coordinated with search index updates

2003-5 Amazon - software engineer

Dealt with large data flows through DBs, MQs, file repositories

Devised query computing diagnostics and compared them against SLAs

Took a very influential data modeling class

2023 - Current work:

Study Data science tools - R-programming

Study Snowflake data warehousing toward SnowPro certification

Private data projects for portfolio management

Degrees, Certifications, etc:

PhD: Chemical Physics - Indiana University, Bloomington, 1989 - Specializing in theoretical quantum physics and applied mathematics

Certification: Azure Fundamentals - 2023

Patent: Tweddle Group - use of wireless software in automotive technology - 2012

Work Authorization: Citizen of US and Poland (EU)