Lax Kulkarni

Wesley Chapel, FL

-Email me on Indeed: http://www.indeed.com/r/Lax-Kulkarni/9794e84b7da0c960

Professional Summary

Accomplished Technology/Data Professional with extensive experience in developing and implementing robust data analytics, AI, and distribution solutions, with strong security strategies and data operations frameworks. Adept at leveraging public cloud (AWS) capabilities to drive data and AI architecture solutions.

Seeking a role as a Snowflake Data Architect to apply my expertise in data and AI ecosystems, ensuring compliance with industry standards and minimizing cybersecurity risks.

Work Experience

Principal Database Engineer

Depository Trust & Clearing Corporation (DTCC)-Tampa, FL

January 2018 to Present

The Depository Trust & Clearing Corporation (DTCC) is an American financial services company that provides clearing and settlement services to all U.S. financial markets. It facilitates securities exchanges for buyers and sellers and acts as a central securities depository by offering central custody of securities.

In the last 7 years, as part of the platform/infrastructure team, I have worked extensively in the public cloud space. The first 4 years were spent on PostgreSQL database administration, automation, and security. The next 3 years were focused on Snowflake infrastructure. Accomplishments listed below. As platform engineer, create platforms and hand them over to operations. Created 30-40 Aurora production clusters, have 180 Snowflake accounts with 5+ PB storage. Support platform as L3 database administrator for Snowflake.

• Continuously work on identifying Snowflake platform limitations in regard to non-functional requirements that are important in relation to resilience, security, and performance. Such capabilities include:

• Cortex Search – Client Insight Chatbot

• Snowpark – Repository ingestion and reporting

• External Tables (Write Once Read Many)

• Hybrid Tables – In proof of concept

• Dynamic Tables – Institutional Trade Warehouse pipeline

• Develop data operational support of the platform by creating knowledge base articles for Snowflake encryption Tri-Secret-Secure, Azure AD integration, and

SCIM Provisioning. Onboard applications to the Snowflake platform for Asset

Services application - Securities Processing Warehouse. Collaborate with developers to set up release pipelines, Snowflake accounts, and facilitate data migration and integration from on-premises Oracle applications.

• Re-architect Snowflake delivery to SIEM (Security Information and Event

Management) application using over 100 accounts to deliver query, login, and other data to Org account, sharing it to SIEM database for insider risk management.

• Develop and implement data security strategies, policies, and procedures to protect sensitive information and mitigate cybersecurity threats, establishing security baselines for cloud database products such as Aurora PostgreSQL database,

DynamoDB, AWS Database Migration Services, etc. Work with cross-functional teams to assess and prioritize security risks and vulnerabilities, participating in regular security audits and assessments.

• Provide guidance to infrastructure and development teams on database security measures, collaborating efficiently with the TRM-DTAM (Dynamic Technology Access

Management) team for PostgreSQL implementation. Develop operational procedures for cloud application databases and caching solutions:

• AWS Data Exchange

• AWS Aurora PostgreSQL 10/12 + Aurora Global

• AWS Aurora - MySQL compatible

• AWS Database Migration Service (DMS)

• AWS DynamoDB

• AWS EMR

• AWS Redshift

• AWS ElastiCache

• Collaborate with application development to meet password rotation goals and move to a vault approach or automated password rotation for data security when possible. Work closely with continuous delivery teams to automate provisioning of infrastructure in AWS for cloud databases and adjust pipelines for secure delivery. Develop backup strategy policies for AWS cloud databases to mitigate data loss concerns, balancing cost and benefits. Evaluate AWS service readiness with respect to regulatory and audit requirements and create security baselines for AWS databases.

Manager/Lead Data Architect - Data Services

INTTRA Parsippany-Parsippany-Troy Hills, NJ

July 2012 to January 2018

· AWS Glue based transformation

· Prototyping using PySpark to rewrite RDS Plpgsql in Glue using Pyspark and

Spark-SQL

· Data warehouse cloud migration effort from on-premises to AWS Redshift

· Successfully completed migration of the on-premises data platform to AWS

(RDS-Spectrum-Redshift) using multiple optimal data pipeline flows:

· RDS-S3-Redshift Pipeline

· S3-Redshift Pipeline

· Spectrum-Redshift Pipeline

· Provided capacity plan and costing for the data platform and obtained Senior

Leadership approval to move forward.

· Created resource plan to achieve the migration in the timeframe before the end of the lease and support on the on-premises appliance.

· Prototyped effort to fork-lift PGSQL transformation using AWS-RDS, AWS Data

Pipeline, and Redshift.

· Evaluated cloud and on-premises options – both financially and technologically.

· Led several efforts with the goal of data & technology architecture simplification + cost savings:

· Contributed to business process improvement of sales operations and service delivery organization by integrating relevant data to Salesforce.com.

· Replaced Informatica Cloud tool with Dell BOOMI in SalesForce to On-Premise DB

(GreenPlum & Oracle) integration effort. Simplified integration architecture, decommissioned Oracle database – cost savings

· Evaluated DB integration that had no business value, created decommission inventory, executed low-cost items, and prioritized the rest.

· Architected near real-time data warehouse using Greenplum data warehouse appliance– Oracle Data Integrator as extract tool, and GPFDIST as load tool

· Lead database design and architecture to meet business requirements adhering to standards and performance SLAs established.

· Design and Architect ELT (Extract, Load & Transform) processes for business requirements using Oracle Data Integrator, Dell BOOMI, and Informatica fast clone

· Instituted Reduce Data Footprint Roadmap, plan and oversee the execution, and guide operational DBAs – 5+ TB disk space reclaimed until now, another 5 TB planned by end of 2014.

· Implemented Track & Trace data quality report effort to ascertain Track & Trace data quality. This effort helped INTTRA publish carrier data quality ranking report starting September 2013.

Head Database Practice & Architect/Technical Manager Conversion/Integration

RSG Media-New York, NY

August 2005 to June 2012

· Architected & Maintained Oracle databases for the product.

· Ensure compliance with industry regulations, such as GDPR, HIPAA, or ISO 27001, and lead efforts to maintain certifications and accreditations.

· Establish and maintain relationships with external cybersecurity experts, vendors, and partners to stay updated on emerging threats and best practices when it comes to implementing products in customer environments.

· Performance tuning of Oracle DB server, defining recommended Oracle initialization parameters (SGA, PGA target sizing) for product databases in client environments

· Led a global team (INDIA & NY) of 4, mentored the team, and led the team to deliver product priorities.

RightsLogic Implementation:

· Closely collaborated with customers at various broadcasting and entertainment outlets:

· RL Implementation 8 - AMC Networks (P&S) (01/11 to 06/12)

· RL Implementation 7 - MTV Networks (07/09 to 12/10)

· RL Implementation 6 - Electronic Arts (08/08 to 06/09)

· RL Implementation 5 - Turner Broadcasting Systems (Rights-In) (07/07 to 03/08)

· RL Implementation 4 - AMC Networks (Rights) (07/07 to 06/08)

· RL Implementation 3 - Travel Channel (05/07 to 08/07)

· RL Implementation 2 - Discovery Communications Inc (04/06 to 04/07)

· RL Implementation 1 - Lifetime Entertainment (Rights + P&S) (08/05 to 03/06)

Environment: Oracle Database Server 8i/9i/10g on Windows/Linux/Solaris, Crystal

Reports 10 (Report Component), ASP.NET, .NET components providing front-end for

Oracle Applications Platform and Security Admin

ABLE LABORATORIES INC.-Cranbury, NJ

November 2004 to July 2005

· Responsible for supporting Oracle eBusiness platform.

· Rolled out several network and desktop security solutions like Websense and

TrendMicro.

· Managed and Administered Microsoft Exchange Server, Blackberry Enterprise

Server, and Windows Active Directory Services.

· Administered EMC SAN and home-grown Chargeback application developed in Java and backend as MySQL.

Environment: Oracle Applications 11i on Redhat Linux 2.1/3.0 Advanced Server,

Developer, Technical Lead, and Application Architect

Majoris (Valtech), Bengaluru-Fort Smith, AR

April 2000 to October 2004

· Developed PERL routines for one of the pioneers in the eCommerce industry – move.com/realtor.com.

· Participated in building a roadmap and future state architecture for a senior living facility in Arkansas (Golden Living).

· Built the first workflow system in the roadmap that reduced the time service was rendered to cash received from Medicare/Medicaid agencies.

· Learned mainframe systems of Golden-Living at Fort Smith and supported it for some time.

· Developed a Java-based eCommerce portal for a Mortgage company to automate the loan application process.

Environment: MVS, Windows NT/2000, COBOL, JCL, Java 2, ASP, JCL, SQL, PL/SQL, VB

6.0, Eztrieve, VSS 6.0, SQL Server 2000, Oracle 8i/9i, DB2 on Mainframe, Crystal

Reports 8, MVS, OS/400, Windows 2003/2000, ASP.Net, C#, SQL Server 2000, JCL,

COBOL, Enterprise Architect, ERWin, Sharepoint Team Services, Sharepoint Portal

Server 2003, VSS 6.0d, DB2 on Mainframe, Oracle 9i Cognos ReportNet, Crystal

Reports 10, MS BizTalk Server 2004 for providing Workflow/Orchestration functionality, DataDirect Connect for .NET

Education

MBA in Analytics and Information Management
Rutgers Business School - New Jersey, USA

January 2013 to December 2017

Bachelor of Engineering in (Computer Science and Engineering)
Gulbarga University - Karnataka

January 1995 to December 1999

Skills

- SQL
- Python
- Data governance
- Oracle
- AWS
- Data warehouse
- ETL
- Agile
- Relational databases
- Data modeling
- Snowflake
- AI
- Databases
- Mainframe development
- CI/CD
- Big data
- Git
- PostgreSQL

Certifications and Licenses

AWS Certified Solutions Architect