



## Wajid Jafri Data Architect

AWS Cloud & Low-Latency Data Platforms

Portfolio website

[www.SmartCloudDataArchitect.com](http://www.SmartCloudDataArchitect.com)

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### Summary:

I design performance-critical, **low-latency data platforms** in AWS and hybrid environments — especially for **fintech and hedge funds** — where milliseconds, resilience, and data integrity matter. This website showcases my work and architecture case studies using cloud services.

I create end-to-end data pipeline from operational systems to an S3-based data lake, producing curated analytics datasets consumed by Tableau dashboards, Snowflake analytics, and AI-driven business queries.

Senior Cloud Data Architect with 15+ years of experience designing, migrating, and operating mission-critical database platforms across on-prem, hybrid, and AWS environments. Extensive consulting background delivering secure, highly available data solutions for financial services, education, and enterprise organizations. Proven record of modernizing legacy Oracle systems, introducing cloud-native services, reducing licensing costs by \$1M+, and enabling low-latency, scalable data access platforms.

### Experience:

#### Verition Fund Management, Manhattan, NY

##### AWS Data Architect Engineer (Jun 2024 – Present)

- Introduced AWS DMS firm-wide, enabling real-time data replication across heterogenous and homogenous databases like Oracle, PostgreSQL, MySQL, and Click House, etc.
- Created Python data pipelines for data lake ingestion, cleaning and curation as parquet data for fast API, BI, AI and Snowflake consumption.
- Solely created a web Password Reset REACT application using AWS Services like a private S3, CloudFront, WAF, Cognito User Pool, API and API Gateway authentication with JWT tokens and a Lambda Function connecting to an Oracle database and changing user passwords.
- Saved over \$1M in licensing costs by replacing Oracle Enterprise Edition upgrade with alternatives like Golden Gate and Read Replicas.
- Enacted SSO for Snowflake accounts with Azure Active Directory and Certificates.
- Created CI/CD Pipelines using Bitbucket, IntelliJ and Jenkins to save source code repositories.
- Sync Oracle reference data real-time and on interval with Postgres, MySQL and Click House databases using AWS DMS, Lambda Functions and Event Bridge schedules.
- Wrote daily export and import Procedures to refresh Oracle development tables from Production with Lambda functions and Event Bridge Schedules.

- Using AWS Lambda Functions, sync real-time data in SQL Server RDS databases like Security Master and Price Master with an Oracle database. Supported MS SQL Server on Linux, Windows, and as an AWS RDS database.

Environment: AWS RDS databases, Oracle, SQL Server, Postgres, MySQL, Redshift, DynamoDB, Click House, Snowflake, GitHub, IntelliJ, Jenkins, Python Lambda Functions, Event Bridge, AWS KCS, CloudFormation, Terraform, CI/CD Pipelines, IntelliJ, Bitbucket, Jenkins, Tableau, BI, AI

### **Logicworks Inc., Manhattan, NY**

#### **AWS Database Engineer** (Jun 2020 – Dec 2023)

- Provided slowness solution by splitting an old 3 TB Aurora MySQL problematic cluster with 40 databases into three newer small manageable sets using a near-zero downtime strategy with Data Migration (DMS).
- Created a content delivery website using S3, Route 53, ACM Certificate, API Gateway, Lambda Function, DynamoDB table, Athena, CloudFront, GitHub, CI/CD pipeline, and SES email service.
- Provided reports to business using AWS Quick Insights using an 11 GB dataset of customer data.
- Set up API authorization methods using Lambda function tokens and Cognito user pools.
- Moved EC2 MySQL databases with DMS to an RDS cluster with Standby and Read Replicas.
- Reduced expenses by creating on demand serverless Amazon Aurora RDS DEV instances.
- Wrote Lambda Functions in Python 3.6 to send emails for the stop and start of EC2s.
- Created multiple APIs using Python Lambda functions to query and update DynamoDB tables.
- Created Ansible Playbooks to automate a fleet of server configurations and checks.
- Added 2TB storage to an Oracle Cloud Infrastructure (OCI) database to the DATA disk group.

Environment: Oracle 11g-19c, RAC, MS SQL Server 2019, Docker, Kubernetes, Jira, Amazon Cloud, Oracle Cloud, Azure Cloud, Oracle Fusion & ERP applications, Python, GitHub, Ansible

### **INTL-FCStone, New York, NY**

#### **Database Engineer (Consultant)** (Jan 2019 – Jan 2020)

- Built a new two-node Oracle 18c RAC Cluster Production database with Physical Standby.
- Provided the performance tuning of slow-running queries in the Production Murex application.
- Installed a new Oracle 13c Enterprise Manager Cloud Control for database monitoring.
- Implemented OEM 13c Alert Email System. It monitors databases, clusters, hosts, etc.
- Created VMs with Load Balancer and Web and Database servers for a web application.
- Prepared report regarding Amazon Cloud Web Services AWS for migration of Applications.
- Set up database VMs with Data Guard Compute nodes in Oracle Cloud Virtual Cloud Network.
- Loaded data in Autonomous Database using Oracle Cloud's Object Storage service.
- Benchmark testing of Amazon EC2 servers in a VPC cloud for Oracle and SQL Server workloads.
- Helped new application developers use the Postgres database in the Azure Cloud.

Environment: Oracle 18c, MS SQL Server 2014 SSRS & SSIS, RAC, MongoDB, PostgreSQL, OEM 13c

### **Fashion Institute of Technology, New York, NY**

#### **Database Administrator (Consultant)** (Aug 2017 – Aug 2018)

- Supporting Ellucian Banner 9 ERP Applications with Oracle 11g databases for Admission, HR, etc.
- Upgraded Banner 8 application to Banner 9 along with database upgrade.
- Created new Physical Standby databases for disaster recovery. Created documentation.
- Mentored the DBA team with the performance tuning of SQL queries while using OEM 13c.
- Configured Alert-Email system for databases and hosts monitoring using OEM 13c.
- Wrote scripts to startup and shutdown the databases, listeners, and OEM Agents with scripts.
- Cloned databases using RMAN DUPLICATE. It is required for migration to new hardware.
- Applied the latest Security Patches to the databases, OEM 13c OMS, Agents, and Plugins.
- Configured daily online backups for databases using Cloud Control. Supported Museum App.
- Upgraded Museum application with the database 11g to 12c and OS from Linux 6 to Linux 7.

Environment: Oracle 18c/12c, Standby Databases, Data Guard, OEM, Banner 9, Postgres, MySQL

**NYC Dept. of Education, Brooklyn, NY**

**Database Administrator (Consultant)** (Feb 2016 –Aug 2017)

- Helped current DBAs to use OEM 12c Tuning Adviser as a tool for performance tuning.
- DBA support for Production, Development, and QA databases running Oracle 11gR2.
- Performed quarterly Patching and maintenance of QA, Staging, and Development.
- Automated patch deployment using Enterprise Manager.
- Improved 24/7 alert and maintenance of databases by solely configuring OEM Alert Rules.
- Configured daily backup using Enterprise Manager.
- Added new devices to RAC Clusters and with ASM disk storage.
- Providing OS level support as Linux Admin as there are none.
- Improved workload times by configuring SQL Profiles on queries.

Environment: Oracle 11g, SQL Server 2016, Postgres, Physical Standby Databases, Data Guard, OEM 12c

**Western Union, Montvale, NJ**

**Exadata Lead DBA (Consultant)** (Jul 2015 – Feb 2016)

- Helped set up a zero-downtime disaster recovery system with Exadata, Big Data Appliance, Golden Gate & Active Data Guard for Western Union web application upgrade in Montvale, NJ.
- Created a POC environment on Exadata with RAC Clusters. Installed Golden Gate for replication.
- Created an auto-login TDE 12c Key-store to encrypt PCI info stored in database data files.

Environment: Oracle 12c, Exadata, Golden Gate, ZDLRA Storage, Big Data Appliance, Data Guard, OEM

**Earlier Career — Database Administrator (Consulting Roles)**

Provided database consulting services across financial services, education, and enterprise organizations, delivering hands-on expertise in Oracle and SQL Server administration, HA/DR design, migrations, upgrades, and production support.

Company	Role	Location	Period
Barnes & Noble	Database Consultant	New York, NY	2014-2015
Federal Reserve Bank of New York	Database Consultant	New York, NY	2008-2013
Edison Schools	Database Consultant	New York, NY	2007-2008

**Certifications:**

Oracle	Amazon AWS	Microsoft
<a href="#">Oracle 12c Certified Professional</a>	<a href="#">Amazon Database Specialty</a>	<a href="#">MS SQL Server 2014</a>
<a href="#">Exadata</a>	<a href="#">Amazon Solution Architect</a>	<a href="#">Azure Database Administrator</a>
<a href="#">Oracle Cloud OCI Architect</a>	<a href="#">Amazon Cloud Practitioner</a>	
<a href="#">Goldengate</a>		
<a href="#">Enterprise Manager</a>		
<a href="#">Big Data</a>		
<a href="#">RAC</a>		

**Education:**

Master's Degree: Preston University USA, Campus-Pakistan

Certificate: Modern Database Management, Dakota State University, USA

Certificate: Data Warehousing and Data Mining, Dakota State University, USA

Certificate: Managing Information Technology, Dakota State University, USA

Certificate: Python Programming, HU Course, USA