

PIJUSH KUMAR SEN

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Personal Summary

Accomplished professional with extensive experience in enterprise architecture and IT services management. Demonstrates expertise in cloud infrastructure management, technical solution architecture, and stakeholder engagement, with a proven track record of successful migrations to AWS and Azure and GCP. I am skilled in data analysis, database design, and big data technologies such as Hadoop and Spark. Adept at managing complex projects using Agile methodologies and tools like JIRA and Jenkins. Career highlights include developing innovative solutions for major clients across industries, enhancing operational efficiency through advanced data warehousing techniques. Committed to leveraging cutting-edge technologies to drive business growth and innovation. Visionary person with broad expertise in transforming organizations through innovative strategies and decisive leadership. Proven track record of streamlining operations, driving growth, and fostering collaborative cultures. Adept at navigating complex markets and delivering sustainable results. Strong focus on stakeholder engagement, financial optimization, and long-term value creation. I've worked on Relativity Custom Development and Cloud/M365 administration.

Experience

Code Verse: 2024-11-01 – TODATE: HMRC

Role: Principal Lead Enterprise Architect / Lead Data Modeller / Lead Java Developer / Lead Data Architect / Lead Data Engineer / Lead SQL Developer / Lead Data Scientist

High Lights:

- I have developed Conceptual, Logical and Physical Data Models; I have worked on HMRC client VOA for CCA (Check Challenge Appeal) conceptual, logical data models and physical data models. The end client is VOA and consulting company is Cognizant. I have developed CCA frontend and backend using Java 20, Spring Boot, Microservice, TDD, BDD, Kafka, AWS, Snowflake and MongoDB. I've implemented SCD type 2 on test, SIT and PROD and done the data migration. I've implemented OLAP dimensional Kimball methodology data models on Snowflake and AWS Redshift cloud using star schemas and snowflake schemas. He managed 20 pupils; 4 onshore and 16 offshore based in India, Bangalore and mentored them; uplifted their skills; done performance management. He produced detailed technical, business, infrastructure and application architecture documents. He leads SAFE Agile and Scrum meetings using Azure DevOps and MS Team. He has developed REST API and Java Chat GPT API for the client. He has developed everything using enterprise Eclipse on Windows 11. He has used GIT source control methodology for all the Java source code. He has used CI/CD platform Jenkins. He has been involved in architecture review board meetings with stakeholders and has been doing risk analysis and mitigates them with team members. He has worked on data quality, data lineage, metadata, data governance, ETL, ELT using Collibra, Azure Data Factory, Databricks and event driven frameworks. He designs and implements scalable, secure, and high-performance data architectures on AWS, Azure, GCP, BigQuery and Databricks using the medallion architecture (Bronze, Silver, Gold layers) for structured and unstructured data. He done AI and ML architecture work.

Technology: SQL, SSIS, Angular, Power BI, LLM, .NET, ML, LangGraph, SPARX Enterprise Architect, Snowflake, Azure, ADF, MS Fabric, Databricks, Unity Catalog, Collibra, Metadata, Jira, Confluence, SharePoint, Excel, ArchiMate 2.0, TOGAF 10, Git, Jenkins, GitLab CI, Java 20, Spring Boot, Microservice, Terraform, Oracle 23AI and DBA, Oracle SQL Developer, SharePoint, Azure DevOps, REST API, JAVA API, TDD, BDD, MongoDB, PySpark, Delta Lake, DLT, MLflow, Feature Store, CI/CD, Model Lifecycle Management, Production Observability, Scikit Learn, TensorFlow 2.0, PyTorch, PySpark, Pandas, NumPy, ADLS, ADF, Functions, EventHub, Key Vault, GenAI, MLOps, NLP, RAG, HLD/LLD, decision logs, patterns, Booking, commercial, operations, loyalty, Azure OpenAI, Prompt Flow, Cognitive Services, Ethical AI, Model Governance, LangChain, ML security, data observability tools, UNIX, Linux, MacOS, SQS, SNS, ECS, KMS, EDR, SPLUNK, SIEM, Datadog, Looker, Datavault 2.0 and Kafka

The Tower Ideas: 2023-08-01 - 2024-10-31: Lloyds

Role: Principal Lead Enterprise Architect / Lead Data Modeller / Lead Java Developer / Lead Data Architect / Lead Data Engineer / Lead SQL Developer / Lead Data Scientist

Highlights:

- I have developed Conceptual, Logical and Physical Data Models for customer MDM and implemented MDM end to end. I have performance tuned Oracle and SQL Server databases; and done NLP, LLM, AI, GenAI, Azure, Databricks, Delta Lake, ML Flow, Feature Store, MLOps and ML work under active SC. He done AI and ML architecture work.

Technology: SQL, SSIS, HDFS, Angular, Impala, Hive, PySpark, Delta Lake, DLT, MLflow, Feature Store, CI/CD, Model Lifecycle Management, Production Observability, Scikit Learn, TensorFlow 2.0, PyTorch, PySpark, Pandas, NumPy, ADLS, ADF, Functions, EventHub, Key Vault, GenAI, LLM, MLOps, NLP, RAG, HLD/LLD, decision logs, patterns, Booking, commercial, operations, loyalty, Azure OpenAI, Prompt Flow, Cognitive Services, Ethical AI, Model Governance, ML security, data observability tools, .NET, ML, LangGraph, HBase, Power BI, Azure, MS Fabric, ADF, Kafka, Git, Jenkins, GitLab CI, Erwin, DBT, Snowflake, Power BI, Databricks, MS Purview, Spark SQL, Spark, UX/UI, Windows 11, TDD, BDD, MongoDB, Java 20, Reacts, Micro Services, TensorFlow 2.0, Google Collab, Maven, Spring Boot, HTML, CSS, CI/CD, AWS DevOps, SaaS, PaaS, RESTFUL, API, MySQL 8 and DBA, Word, PowerPoint, Excel, AWS, Git, Linux, Terraform, Ansible, Jenkins, Docker, AWS Lambda Scripting and automation, Kubernetes, Azure, PostgreSQL on Azure, Google Cloud, ArchiMate 2.0, AWS Redshift, Active Directory, Amazon Aurora, TOGAF 10, Amazon Connect, Amazon Lex, Lambda/API Gateway, LangChain, DynamoDB, UNIX, Linux, MacOS, SQS, SNS, ECS, KMS, EDR, SPLUNK, SIEM, Datadog, Looker and CloudWatch

Principal Lead Enterprise Architect / Lead Data Modeller / Lead Java Developer / Lead Data Architect / Lead Data Engineer / Lead SQL Developer / Lead Data Scientist 05/2022 to 07/2023

Virtusa – Currency Direct London

- The client chose to move to AWS from On-Premises using these technologies SQL, LLM, .NET, ML, LangGraph, Power BI, HDFS, Impala, Java 20, Angular, MongoDB, Hive, HBase, Amazon Connect, Amazon Lex, Lambda/API Gateway, Ansible, Terraform, DynamoDB, CloudWatch, VPC, EC2, IAM, Java 20, Oracle 22c, Oracle SQL Developer, SpringBoot, Micro Services, LangChain, SQS, SNS, ECS, KMS, TDD, BDD, AWS, Kafka, UNIX, Linux, EDR, SPLUNK, SIEM, MacOS, Looker, Datadog and MongoDB

Principal Lead Enterprise Architect / Lead Data Modeller / Lead Java Developer / Lead Data Architect / Lead Data Engineer / Lead SQL Developer / Lead Data Scientist 06/2021 to 04/2022

TCS - BP

- The client has chosen to move to AWS from Cloudera.

Principal Lead Enterprise Architect / Lead Data Modeller / Lead Java Developer / Lead Data Architect / Lead Data Engineer / Lead SQL Developer / Lead Data Scientist 01/2020 to 05/2021

KPMG - HSBC

- The client has chosen to move to Azure; their on-premises databases and applications implemented on Azure Cloud.

Principal Lead Enterprise Architect / Lead Data Modeller / Lead Java Developer / Lead Data Architect / Lead Data Engineer / Lead SQL Developer / Lead Data Scientist 11/2018 to 01/2020

Estee Lauder

- The client has chosen to develop customer MDM.

Principal Lead Enterprise Architect / Lead Data Modeller / Lead Java Developer / Lead Data Architect / Lead Data Engineer / Lead SQL Developer / Lead Data Scientist 07/2018 to 10/2018

Harman Intl. Industries - Flybe

- The Flybe was chosen to integrate the Avios Award system from their existing mainframe system with the new e-commerce system E-Fly.

Principal Lead Enterprise Architect / Lead Data Modeller / Lead Java Developer / Lead Data Architect / Lead Data Engineer / Lead SQL Developer / Lead Data Scientist 09/2017 to 06/2018

Mastek – Hitachi Capital

- The client chose to build their Key2 fleet management system and replace their old legacy system Kestrel with the ecommerce system.

Royal Mail Group, Milton Keynes 06/2016 to 12/2016

Title: T&R, PREDES and ER

Role: Principal Lead Enterprise Architect / Lead Data Modeller / Lead Java Developer / Lead Data Architect / Lead Data Engineer / Lead SQL Developer / Lead Data Scientist

Description: Royal Mail developed a new analytical enterprise reporting (ER) near real time Data warehouse platform from their transactional database POISE and Tracking & Reporting (T&R) project for their business platform and enhanced PREDES (Pre Dispatch) project.

Accenture, UK: Mar 2016 – May 2016: Royal Sun Alliance

Title: Galaxy

Role: Principal Lead Enterprise Architect / Lead Data Modeller / Lead Java Developer / Lead Data Architect / Lead Data Engineer / Lead SQL Developer / Lead Data Scientist

Description: The client has chosen to develop customer MDM.

Principal Lead Enterprise Architect / Lead Data Modeller / Lead Java Developer / Lead Data Architect / Lead Data Engineer / Lead SQL Developer / Lead Data Scientist 06/2016 to 12/2016

Royal Mail Group**Milton Keynes, UK**

- Royal Mail developed a new analytical enterprise reporting (ER) near real time Data warehouse platform from their transactional database POISE.

Principal Lead Enterprise Architect / Lead Data Modeller / Lead Java Developer / Lead Data Architect / Lead Data Engineer / Lead SQL Developer / Lead Data Scientist

11/2014 to 04/2015

BT/Mastek – SIA (Security Industry Authority) / Home Office

- SIA replaced the old CRM system with the new CRM system.

Principal Lead Enterprise Architect / Lead Data Modeller / Lead Java Developer / Lead Data Architect / Lead Data Engineer / Lead SQL Developer / Lead Data Scientist

10/2013 to 08/2014

SopraSteria – ONS (Office of National Statistics)

- We replaced M204 mainframe system with web based LEDR system.

Principal Lead Enterprise Architect / Lead Data Modeller / Lead Java Developer / Lead Data Architect / Lead Data Engineer / Lead SQL Developer / Lead Data Scientist

07/2012 to 08/2013

Reply Ltd – Value Retail

- We have developed RFP for Windows Azure public cloud to migrate data from Salesforce private cloud.

Principal Lead Enterprise Architect / Lead Data Modeller / Lead Java Developer / Lead Data Architect / Lead Data Engineer / Lead SQL Developer / Lead Data Scientist

07/2005 to 12/2011

Accenture

London

Lead Enterprise Architect / Lead Data Modeller / Lead Java Developer / Lead Data Architect / Lead Data Engineer / Lead SQL Developer / Lead Data Scientist

08/1997 to 07/2005

SopraSteria

Birmingham, UK

Senior Mainframe Developer

09/1996 to 07/1997

Object Ware Inc/IBM

Albany, NY, USA

Java/C++/C# Team Lead

08/1993 to 08/1996

India

Principal Lead Enterprise Architect / Lead Data Modeller / Lead Java Developer / Lead Data Architect / Lead Data Engineer / Lead SQL Developer / Lead Data Scientist

07/2017

RBS

Edinburgh, UK

- He done data migration using TOGAF 10 methodology on active DV using Informatica 10.

Skills

- Information Technology Services Management
- Requirement Gathering & Analysis
- Cloud Infrastructure Management
- Technical Solution Architecture
- Stakeholder Engagement
- Risk Mitigation Management
- Client Relationship Management
- IT Operations Management
- Team Management & Leadership
- AWS
- Azure
- Java 20
- Talend 7 Enterprise
- Power BI
- Bigdata
- SQL
- Database Design
- Data Lake
- GCP
- ICD
- Data Mapping
- Data Profiling
- Data Mining/Governance
- Data Modelling
- Linux
- Packages
- Stored Procedure
- Stored Functions
- Triggers
- DB2
- Cobol
- CICS
- JCL
- ADW Key2
- C++
- Performance Tuning
- Python
- Kafka
- Spark
- Azure Cosmos
- Dynamo DB
- Redshift
- Azure Synapse
- CLI
- NoSQL Data Modelling
- Azure Cosmos DB
- Azure Datawarehouse
- Delta Lake

- Datawarehouse
- Azure Data Factory
- Azure Machine Learning
- Google BigQuery
- HDFS
- .NET
- BigQuery
- MDM/RDM
- Hadoop
- ER Studio
- CA Erwin
- Power Designer
- Visio
- Data Analysis
- SPARX EA
- Azure Data Lake
- AWS S3
- AWS RDS
- AWS RDS SQL Server
- Azure SQL Database
- TOGAF 9.1
- MongoDB
- Teradata
- Oracle23AI & DBA
- PLSQL
- C#
- Junit
- MS Project
- AWS DevOps
- Informatica 10
- QlikView
- Tableau
- SSIS/SSAS/SSRS
- JIRA
- Markit EDM
- Endure
- Git
- Splunk
- TensorFlow 2.0
- Google Collab
- PySpark
- PyTorch
- Pandas
- Active Directory
- Jenkins
- Docker
- Terraform
- Talend 8
- Kubernetes
- Snowflake integration with Amazon Web
- PostgreSQL
- MySQL
- MS SQL Server 2019
- UDF
- TSQL
- Agile
- Scrum
- Azure DevOps
- UNIX/UNIX Shell Scripts
- Rational ClearCase and ClearQuest
- WebSphere
- WebLogic
- Subversion
- TOGAF 10
- ArchiMate 2.0
- Azure Data Bricks
- AWS Kinesis
- AWS SQS
- AWS CLI
- AWS Cloud Formation
- MS D365
- Lotus Note
- SOAP
- REST

Certifications

- AWS Certified
- TOGAF 9 Certified
- TOGAF 9 Foundation Certified
- Oracle9i DBA
- Oracle9i PLSQL Developer
- SQL Developer
- ITIL Certified

Academic Details

DevOps Master PURDUE University	12/2024
Cyber Security Master Cambridge University	12/2024
AI / ML / Python doctorate degree Oxford University	12/2023
PG Diploma in Management Sutton Coldfield College, The Chartered Management Institute (CMI)	12/2002
	Sutton Coldfield College, Birmingham, UK
B.Tech.: Computer Science NITW, Kakatiya University	12/1993
	India

Previous Experience

- 2005-07-01 - 2011-12-31, Accenture, London, England, Principal Enterprise Architect / Lead Data Modeller / Lead Java Developer / Lead Data Architect / Lead Data Engineer / Lead SQL Developer / Lead Data Scientist for UBS, BBC, Barclays, HMRC, DWP, RPA, Pfizer and Combined Insurance
- 1997-08-01 - 2005-07-31, SopraSteria, Birmingham, England, Lead Enterprise Architect / Lead Data Modeller / Lead Java Developer / Lead Data Architect / Lead Data Engineer / Lead SQL Developer / Lead Data Scientist for EDF and EFA
- 1996-09-01 - 1997-07-31, Object Ware Inc/IBM, Albany, New York, Senior Mainframe Developer
- 1993-08-01 - 1996-08-31, Various companies in India, Java/C++/C# Team Lead

Personal Information

Citizenship: British Citizen DBS: 2027 BPSS: 2034 SC: 2035 EDV: 2035