

# 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, IaaS, RESTFUL, API, MySQL 8 and DBA, Word, PowerPoint, Excel, AWS, Git, Linux, Terraform, Ansible, Jenkins, Docker, AWS Isac 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**

**Exeter, UK**

- 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**

**Newbury, UK**

- 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

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

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

## Previous Experience

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- 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

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