

## **Data Architect Job Description Template**

**Job Title:** Data Architect

**Location:** [Specify Location or Remote]

**Job Type:** [Full-time/Part-time/Contract]

### **About the Role**

We are seeking an accomplished and forward-thinking Data Architect to lead the architecture, engineering, and management of robust, scalable, and secure data solutions. You will be instrumental in designing data pipelines, integrating data lakes, and setting data governance standards across diverse cloud and open-source platforms. If you have a strong background in data engineering, deep expertise with modern data management technologies, and a passion for constructing best-in-class data architectures, this is your opportunity to make a strategic impact and guide a team of talented professionals.

### **Responsibilities**

- Define and develop the overall data architecture strategy, ensuring scalability, performance, and security across cloud and on-premises environments.
- Architect, implement, and optimize data pipelines for efficient ETL/ELT processes, supporting real-time and batch data integration.
- Design, build, and maintain data lakes and data warehouses on leading cloud platforms (such as AWS, Azure, Google Cloud) and using open-source technologies.
- Collaborate with business users, data scientists, engineers, and stakeholders to gather requirements and ensure architectural alignment with business needs.
- Ensure data quality, consistency, lineage, privacy, and governance across all data assets.
- Integrate, manage, and optimize structured and unstructured data from multiple sources, using best-in-class data management frameworks and tools.
- Oversee data modeling, metadata management, and data cataloging initiatives.
- Evaluate, recommend, and implement new technologies and tools, balancing innovation with operational efficiency.

- Mentor and support data engineers and technical team members, fostering a culture of continual learning and best practices.
- Create and maintain comprehensive technical documentation, standards, and architectural diagrams.

### **Required Skills & Experience**

- Bachelor's or Master's degree in Computer Science, Information Systems, Data Engineering, or a related field (or equivalent experience).
- Significant hands-on experience (typically 5+ years) in data engineering, data architecture, and data management roles.
- Deep expertise with cloud data platforms such as AWS (e.g., S3, Redshift, Glue, Lake Formation), Azure (e.g., Data Lake, Synapse), and Google Cloud (e.g., BigQuery, Dataflow).
- Strong knowledge of open-source data technologies such as Hadoop, Spark, Hive, Presto, Apache Kafka, Druid, or Airflow.
- Proficiency in designing and building data lakes, data warehouses, and modern data pipelines.
- Hands-on experience with data integration, ETL/ELT processes, and workflow orchestration.
- Familiarity with data modeling tools and techniques, both logical and physical.
- Experience setting and enforcing data management, data governance, and data security standards.
- Excellent analytical, problem-solving, and troubleshooting abilities.
- Strong communication skills to collaborate with both technical and non-technical stakeholders.

### **Nice-to-Have Skills**

- Experience with NoSQL databases (e.g., MongoDB, Cassandra, DynamoDB) and graph databases (e.g., Neo4j).
- Proficiency with DevOps tools and CI/CD pipelines related to data infrastructures.
- Experience working with real-time data streaming and analytics solutions.

- Familiarity with data cataloging, data lineage, and MDM tools (e.g., Collibra, Alation, Informatica).
- Certifications in cloud architecture or data engineering (e.g., AWS Certified Data Analytics, Google Cloud Professional Data Engineer).
- Knowledge of machine learning platforms and integration within data pipelines.
- Open-source community contributions or published best practices.

### Why Join Us?

- **Innovative Projects:** Architect and build the next generation of data solutions powering intelligent business decisions.
- **Collaborative Environment:** Work with a passionate team committed to technical excellence and shared growth.
- **Career Growth:** Access to mentorship, advanced certifications, and leadership opportunities.
- **Flexible Work Options:** Experience a hybrid or remote work arrangement to support your work-life balance.
- **Inclusive Workplace:** Be valued for your expertise and insights in an open and supportive culture.

### Apply Now

Are you ready to architect the future of data at [Your Company Name]? Join us as a Data Architect and help deliver scalable, secure, and cutting-edge data systems that empower our organization. Apply today!