



ALLPAY LIMITED

[Title]

Owner	HR Manager	Date Created	25/10/19
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1. JOB IDENTIFICATION

Job Title: Data Engineer

Responsible to: Data Manager

Department(s): Research and Development

2. JOB PURPOSE

Responsible for maintaining, improving, cleaning, and manipulating data in allpay's operational and analytical databases. Assist in building the Azure data warehouse. Define, build, maintain, and optimise data pipelines from our operational systems to an Azure environment to facilitate faster, better, data-informed decision-making within the business.



3. KEY REQUIREMENTS

- Identify and profile valuable data sources (whether internal or external) and automate collection processes
- Deliver data solutions in accordance with agreed organisational standards that ensure services are resilient, scalable and future-proof.
- Design, build, test, and maintain data pipelines to connect operational systems, data for analytics and BI systems
- Assure data lineage and ensure data is auditable in line with legislation.
- Document source-to-target mappings.
- Design, code, test, correct, and document programs and scripts.
- Maintain system and application documentation.
- Ensure that data ingestion/ETL processes are scheduled at optimal times so as not to conflict with other batch processes.
- Deliver services that are automated, reliable and secure
- Ensure data is refreshed so that reporting data is available at appropriate times to meet SLAs.
- Ensure data is secured across different clients and in line with legislation.
- Ensure that test data is masked appropriately in development and test systems.
- Triage data pipeline problems and data-related issues and coordinate between teams to ensure successful resolution.
- Liaise with all allpay departments and involvement in projects for future customer requirements and implementations. Will need to work very closely with all IT departments to meet with and exceed client expectations.
- Monitor database and data pipeline performance and make recommendations when appropriate (query and data flow optimisation, index creation and maintenance)
- Monitor space usage and data transfer rates in Azure
- Implement data archiving strategy in accordance with agreed business expectations.
- Support 3rd parties to deliver DBA tasks and provide hands-on support when required.

General

- Provide guidance to other members of the team.
- Comply with any training requests identified as necessary to meet the requirements of the post and such other duties as are deemed necessary to meet departmental requirements.
- Take pride in own work and that of the team.
- Take ownership and responsibility for accomplishing objectives.
- Conscientiously follow through on commitments.
- Demonstrate resilience under demanding pressures and circumstances.
- The post-holder will be required to undertake such tasks as may be reasonably expected within the scope and grading of the post.



4. ADDITIONAL KEY DUTIES

- Recommend ways to improve data efficiency and reliability
- Identify new opportunities for process improvement
- You will be expected to provide ad-hoc out of hours additional support during a major incident (Severity 1 or 2) where the business need demands it.
- In business areas where regular issues will occur, you may be expected to form part of an out of hours rota system.
- At the time of a major incident, you may be asked to perform an emergency job role away from your regular role. This will be led and managed by the incident manager at the time of the incident until such a time where the incident is deemed by the incident manager to be over. You will not be expected to do both duties during that time, however, the new role may be significantly different from your regular role.



5. KNOWLEDGE, TRAINING, EXPERIENCE & SKILLS REQUIRED TO DO THE ROLE

Qualifications:

- Degree or qualification/experience obtained in the field of Computer Science, IT, engineering, Maths, Physics or equivalent.
- Microsoft Certified Azure Data Engineer Associate desirable.

Skills and Experience:

Strong experience in the majority of the following will be essential:

- Designing, building, and optimising data ingestion/ETL pipelines suitable for on-prem and Cloud-based architectures.
- Azure technologies: Data Factory v1 & v2, Databricks, Data Lake, Azure Synapse Analytics, Analysis Services, Stream Analytics, PolyBase, and u-SQL
- Full SQL Server BI Stack (SQL, SSIS, SSRS, SSAS tabular, and PowerBI)
- Data warehousing, Kimball's methodology, in particular.
- Detailed understanding structured database systems, including MS SQL Server (essential) and MySQL (desirable)
- Advanced knowledge of SQL queries, stored procedures and triggers. Ability to tune and optimise query performance, recommend indexes.
- Basic knowledge of administering SQL Server.
- Basic understanding of unstructured, NoSQL database systems

Desirable Skills and Experience:

- Knowledge of JSON, Spark, C#, Python, and R
- Understanding of project management methodologies (Agile, Prince 2).
- Knowledge of applicable data privacy practices and laws.
- Understanding of the ITIL and Service Desk process.

Additional:

- Ability to conduct research into database issues standards and products as required.
- Excellent communication/ interpersonal skills to build good working relationships at all levels.
- Able to communicate effectively at all levels, across organisation and technical boundaries.
- Able to work as part of a team or alone as required.
- Ability to prepare and maintain documentation to the highest standards of presentation with the use of correctly written English.
- Flexibility and adaptability in a frequently changing environment



8. JOB DESCRIPTION AGREEMENT

We confirm that this conveys a full and accurate description of the job as at January 2020.

Job Holder's Signature:

Date:

Manager of Department Signature:

Date:

Director of Department Signature:

Date: