

Job title: Data Products Engineer

Line manager: Head of Data Products

Grade (if applicable):

Direct reports:



Role Purpose:

- To design, build and maintain trusted, reusable data products that enable better decision-making and insight across Peabody. The role supports the delivery of our data strategy by improving data access, quality and governance, and helping business areas use data more effectively.

Key Activity:

- Design, develop and maintain robust, scalable and high-performance data pipelines and transformations using Azure Data Platform services including Databricks (PySpark), Data Factory, Synapse, and Data Lake Gen2.
- Engineer curated data layers (bronze, silver, gold) optimised for analytics, operational reporting, and AI/ML workloads, ensuring each layer meets performance, reusability and governance standards.
- Work directly with product owners, data product analysts, and business stakeholders to translate high-level requirements into well-defined data products, including defining metrics, business rules, and transformation logic.
- Work with platform engineers and solution architects to integrate and optimise ingestion from diverse internal systems (e.g. NEC, CRM, finance, asset management) and external APIs and data feeds.
- Embed advanced data quality checks, lineage tracking, monitoring, and alerting into pipelines, ensuring end-to-end traceability and issue resolution.
- Create and maintain comprehensive technical documentation including data dictionaries, architectural diagrams, lineage, testing protocols, and service-level expectations.
- Apply DevOps and CI/CD principles using GitHub, Azure DevOps, infrastructure-as-code, and automated testing to streamline deployment, monitoring and recovery of data pipelines.
- Ensure adherence to data governance policies, metadata standards, privacy and security controls, and provide engineering input into governance frameworks.
- Provide technical mentorship and peer reviews across the data engineering team, contributing to knowledge sharing and development of best practices.
- Lead or contribute to agile ceremonies, estimation and solution design within delivery squads.
- Evaluate emerging technologies, tools, and practices to evolve the data engineering stack and drive platform innovation.

Success Metrics:

- High-performance data products are delivered that meet SLAs, business needs and are consistently used in decision-making.
- Demonstrable improvements in platform scalability, data quality and engineering standards.
- Reduction in manual reporting processes through automation and reuse of trusted data products.
- Strong adoption and positive stakeholder feedback across multiple business areas.
- Increased platform resilience and monitoring coverage through automation and observability.

About you:

- Experience in data engineering roles within modern data platforms, ideally with a focus on Microsoft Azure (e.g. Azure Data Factory, Databricks, Synapse, Data Lake Gen2).

- Strong programming skills in Python and SQL, with experience applying them in large-scale data transformation and modelling.
- Proven ability to build and manage ELT pipelines and implement curated data layers across enterprise-grade platforms.
- Hands-on experience with data orchestration, CI/CD, DevOps tooling, and automated testing frameworks.
- Solid understanding of data product lifecycle, metadata standards, data cataloguing, and governance frameworks (e.g. DAMA).
- Familiarity with key data architecture patterns (e.g. data lakehouse, medallion architecture, event-driven pipelines).
- Track record of delivering data products that are secure, well-documented, and performant.
- Strong collaboration and communication skills, with the ability to engage both technical and non-technical stakeholders.
- Comfortable working in agile, cross-functional teams and contributing to a culture of continuous improvement.
- You will have strong analytical and problem-solving abilities, with the ability to troubleshoot and resolve complex data issues. You will have keen attention to detail.
- You will have the ability to work independently and manage multiple tasks simultaneously, requiring strong organisational and time management skills.