

# Moonfare Data Engineer Interview Guide – Experienced 7+

## Round 1: Get to Know You

### 1. AWS Services

Discussed the AWS services I have experience with, such as S3, Lambda, DynamoDB, Kinesis, Glue, and Step Functions.

#### Example Questions:

- Which AWS services do you use for data ingestion and processing?
- How do you handle data cleanup and lifecycle management in S3?

### 2. Pipeline Monitoring

I shared strategies for monitoring pipelines using tools like **CloudWatch**, **Datadog**, or custom alerting setups with **SNS** and **Lambda triggers**.

#### Example Questions:

- How do you handle pipeline failures or delays?
- Which metrics are critical to monitor?

### 3. About Moonfare

Explained what I knew about Moonfare's business model, emphasizing private equity investments and technology-driven solutions.

#### Example Questions:

- What attracts you to working at Moonfare?
- How can technology improve private equity investments?

### 4. Agile Task Prioritization

Discussed my approach to prioritizing tasks using **backlog grooming** and tools like **JIRA**, emphasizing collaboration with product owners and stakeholders.

#### Example Questions:

- How do you manage competing priorities in an Agile environment?
- Can you share a time when you had to shift focus due to urgent tasks?

## Round 2: Managerial Interview

### 1. Project Discussion

Described key projects, emphasizing data pipelines, ETL jobs, and the tech stack used (Spark, Python, AWS).

### 2. Moonfare's Tech Stack

The manager shared insights about Moonfare's architecture, tools, and their data processing approach. I asked follow-up questions about scalability and optimization.

#### Example Questions:

- What's the biggest technical challenge Moonfare faces in handling data?
- How does your tech stack support scalability and analytics?

## Round 3: Technical (HackerRank Test)

### Section 1: AWS

- **S3 Cleanup Command:** Wrote a script for managing and cleaning up outdated S3 objects using **lifecycle policies** or direct deletion commands.
- **CDC During Migration:** Explained approaches for real-time **Change Data Capture (CDC)** using tools like **AWS DMS** and **Kinesis**.
- **Lambda, Kinesis, DynamoDB:** Solved a question involving data streaming and persistence with a combination of **Lambda** triggers from Kinesis to DynamoDB.

### Section 2: ScalaSpark

Worked on **healthcare data cleaning** using ScalaSpark, focusing on transformations and data normalization.

#### Example Task:

- Remove duplicates, fill missing values, and apply schema validation.

### Section 3: Python

Implemented a context manager class for a sequence generator, leveraging Python's `__enter__` and `__exit__` methods.

```
class SequenceGenerator:
    def __init__(self, start, step):
        self.start = start
        self.step = step

    def __enter__(self):
        return self.generate()

    def __exit__(self, exc_type, exc_value, traceback):
        pass

    def generate(self):
        current = self.start
        while True:
            yield current
            current += self.step
```

#### Preparation Tips:

- **AWS Mastery:** Focus on serverless architecture, data streaming, and storage optimization.
- **ScalaSpark Skills:** Practice transformations, data cleaning, and handling large datasets efficiently.
- **Python Context Managers:** Understand custom context managers and generators.
- **Agile Methodologies:** Be ready to discuss task prioritization and teamwork in an Agile setting.

#### Glassdoor Moonfare Review –

[https://www.glassdoor.co.in/Overview/Working-at-Moonfare-EI\\_IE2268718.11,19.htm](https://www.glassdoor.co.in/Overview/Working-at-Moonfare-EI_IE2268718.11,19.htm)

#### Moonfare Careers –

<https://www.moonfare.com/careers>

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