

Experia Data Engineer Interview Guide – Experienced 3+

Round 1 - Coding (100 Minutes):

Key Challenges:

1. Run Length Encoding and Decoding:

- Implemented a function to encode and decode strings using Run Length Encoding in Python.
- Showcased efficient string manipulation and problem-solving.

2. Device Name System:

- Designed a solution to generate unique device names from a list of IoT devices.
- Handled naming conflicts by appending incremental numbers.

3. Longest Ordered Subsequence of Vowels:

- Implemented an algorithm to find the longest ordered subsequence of vowels in a given string.

Round 2 - Big Data (1 Hour):

Discussion Areas:

• Big Data Concepts:

- Explored fundamentals of Hive, Spark, HBase, Hadoop, and Big Data tools.
- Discussed SQL skills with use cases.

• Cloud Technologies:

- Highlighted batch vs. streaming project experience.
- Shared expertise in AWS for data projects, focusing on services like Airflow for scheduling and deployment.

• Real-time Spark Project:

- Discussed implementation of real-time data processing with Spark, data modeling, and schema design.

Round 3 - Technical (2 Hours):

Focus Area: DSA Problem-Solving

1. Second Largest Element:

Wrote a function to find the second largest element in an array.

2. Nth Largest Element:

Extended the solution to determine the nth largest element in an array.

3. Linked List Challenge:

Replace each node's value with the next greater value in the list.

Addressed edge cases where no greater element exists.

Round 4 - System Design (1 Hour):

Topics Covered:

1. Data Processing Design:

Explained real-time vs. batch data processing scenarios.

2. BI System Use Cases:

Demonstrated system design principles applied to BI solutions.

3. Project Design (Draw.io):

Designed a project architecture visually and explained key components.

4. Banking System Design:

Built a banking system architecture from scratch, highlighting critical workflows, scalability, and data management strategies.

Round 5 - HR and Technical (1 Hour):

Key Discussions:

1. Past Projects & Technical Acumen:

Explained project architecture, technical contributions, and value delivered.

2. Challenges and Collaboration:

Addressed:

- Handling team disagreements.
- Managing failed ideas.
- Working under tight deadlines and high pressure.

3. Adaptability & Learning:

Shared experiences of quickly adapting to new technologies and tools in evolving project requirements.

Glassdoor Expedia Review –

<https://www.glassdoor.co.in/Reviews/Expedia-Group-Reviews-E9876.htm>

Expedia Careers –

<https://careers.expediagroup.com/jobs/>

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