

Interview Prep Brief

Likely Questions

Walk us through your experience designing and building telemetry ingestion and data pipelines.

Tied to: Data Engineering - SQL, ETL / data pipelines; telemetry data solutions

- Designed and implemented a cloud-native platform with telemetry ingestion, distributed backend services, and cloud-hosted APIs
- Defined secure cloud-connected data ingestion, processing, storage, and analysis for an FDA-regulated device platform
- Led architecture and delivery of secure data pipelines and backend cloud services

How have you ensured data quality and validated the accuracy of reporting and business logic in production?

Tied to: Validate data quality, business logic, report accuracy, and scheduled refreshes

- Tested content implementation end-to-end and validated business logic in proprietary content delivery systems
- Tracked defects, assessed release risk, and drove resolution before deployment at Microsoft
- Contributed to Continuous Quality Improvement efforts on workflow reliability and quality

Describe how you monitor, troubleshoot, and resolve production issues to maintain reliability.

Tied to: Monitor, troubleshoot, and resolve data pipeline, query, reporting, and production issues

- Managed post-release maintenance, incident response, and continuous improvement based on production feedback
- Designed network health monitoring and predictive failure detection concepts
- Maintained visibility through dashboards, status reporting, and escalation mechanisms

What is your hands-on experience with Python, C#, and automation scripting?

Tied to: Automation using Python, C#, PowerShell

- Python, C#, and SQL listed as core development skills
- Designed and implemented CI/CD and deployment automation on a cloud-native platform
- Strong technical fluency across software, cloud, and platform domains

How do you approach documentation and building reusable, maintainable engineering practices?

Tied to: Create and maintain technical documentation, reusable components, and engineering best practices

- Improved documentation, workflow visibility, and handoffs for globally distributed programs
- Translated objectives into technical requirements, dependencies, and decision frameworks
- Established technical priorities and repeatable delivery practices

How do you collaborate with cross-functional engineering teams to deliver analytics solutions?

Tied to: Collaborate with cross-functional engineering teams to deliver scalable, high-quality solutions

- Partnered with engineering, product, design, quality, and operations to define delivery plans
- Coordinated execution across platform, application, backend, and content stakeholders
- Facilitated alignment between product priorities and engineering capacity

Gaps to Prepare

- No demonstrated Power BI, DAX, or semantic modeling experience — prepare to discuss transferable analytics/data-modeling reasoning and a concrete learning plan.
- No Grafana or dedicated BI dashboarding experience — be ready to distinguish program dashboards from analytics dashboards and show ability to ramp.
- No Azure Data Explorer (Kusto/ADX) experience — study KQL fundamentals and relate to SQL/query experience before the interview.
- No explicit ETL development or automated report generation in the resume — prepare examples of pipeline architecture and clarify hands-on vs. leadership scope.

- No AI agent / Copilot / agentic platform (Agency CLI, prompt assets) experience — research these tools and articulate how your technical foundation enables rapid adoption.
- PowerShell not in skill set — acknowledge and pivot to Python/C# proficiency and scripting adaptability.
- Recent roles are program-management and architecture-leadership oriented; be ready to prove current hands-on individual-contributor coding and query-writing ability.