

ABHIJIT KRISHNA MENON

Applied AI and Software Engineering | Agents and Developer Platforms

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Senior Data Engineer at Amazon building production AI applications, developer tooling, and cloud services with Python and TypeScript/React. Delivers complete systems from data and backend infrastructure through user interfaces, permissions, and evaluation. Built an analytics platform adopted by **1,000+ stakeholders across 61 teams**, alongside autonomous investigation and code-review agents.

EXPERIENCE

Amazon

Mar 2022 - Present

Senior Data Engineer

Mar 2026 - Present

Data Engineer II: Jun 2023 - Mar 2026 | Data Engineer I: Mar 2022 - May 2023

Selected contributions across Amazon roles

Production AI applications and agent infrastructure

- Built a full-stack analytics assistant with a React self-service portal, Python backend, and Redshift/Glue data layer; combined intent and sub-topic routing, RAG, SQL generation, and code execution to produce charts, reports, and access-controlled answers.
- Scaled adoption to **1,000+ stakeholders across 61 teams**, reducing time-to-insight from **48 hours to 5 minutes for 80% of queries** and SQL development time by **40%**; enabled no-code onboarding of business domains, data sources, and knowledge articles.
- Designed and shipped a **Redshift Analytics server using Model Context Protocol (MCP)**, enabling any MCP-compatible agent harness to discover schemas, execute queries, and diagnose performance; implemented secure proxy and identity controls with per-agent identity, audit provenance, and permission guardrails.
- Built an **autonomous on-call agent** that triages incoming tickets, coordinates parallel investigations, performs root-cause analysis, and posts findings automatically.
- Built a **SQL code-review agent** that executes pull-request queries against Redshift, parses EXPLAIN plans, and surfaces syntax errors and optimization recommendations before merge.
- Developed skill and topic authoring, testing, and CI tooling against production-faithful environments; established systematic agent evaluation to replace manual log inspection and measure output quality.
- Created a voice-enabled coaching and learning agent that translates performance data into natural spoken briefings; built reusable permission and ticketing frameworks adopted across multiple applications.

Amazon continued

Mar 2022 - Present

Full-stack ownership and data infrastructure

- Owned a dispute-reduction workstream from metric definition, Redshift models, and pipelines through self-service reporting; implemented customer-facing portal updates and an automated point-of-entry validation gate to turn findings into production controls.
- Built a multi-tenant file-ingestion application spanning SFTP, web UI, and S3 uploads; triggered Spark validation and Parquet processing for **100+ feeds across 20 vendors**, saving approximately **20 hours per week**.
- Re-engineered scorecard processing for **3,500 delivery partners** and **18 metrics**, using configurable pipelines, data versioning, and Data Vault modeling; cut runtime from **6 hours to 1 hour** and saved approximately **40 hours per week**.
- Engineered ingestion, analytics, and payment workflows for **Alexa Thank My Driver**, supporting **\$2 million in payments**; built shared data-quality automation for completeness, consistency, and schema checks.

EARLIER EXPERIENCE

Chewy

Feb 2021 - Mar 2022

Marketing Data Engineer II

- Led development of an **MLOps platform** with SageMaker Studio, custom Docker containers, and Feature Store; enabled model setup, scheduling, monitoring, and updates across AWS accounts for the Marketing Data Science team.
- Engineered a real-time bid-adjustment solution using competitor pricing for Google Product Listing Ads, increasing customer acquisitions **55%**; separately built Prophet conversion forecasts that reduced cost per acquisition **10%**.

TECHNICAL SKILLS

Software: Python, TypeScript, React, SQL, Scala, FastAPI, Docker, AWS CDK, CI/CD

AI systems: Amazon Bedrock, Strands Agents SDK, LangGraph, MCP, RAG, tool orchestration, code execution, agent evaluation, identity and access controls

Data and cloud: Redshift, Spark, Glue, S3, Lambda, DynamoDB, SNS, SQS, EventBridge, Step Functions, IAM, CloudWatch, SageMaker

EDUCATION

Northeastern University, Boston

Aug 2020

MSc, Data Analytics Engineering

SRM Institute of Science and Technology, India

Jul 2018

BTech, Mechatronics Engineering

SELECTED WRITING

Introduction to Causal Inference | akm5630.gitbook.io/understanding-causal-inference