Data/AI/NGDE

The Data/AI/ NGDE track will bring together industry leaders and technical experts to explore the latest advancements in artificial intelligence, data analytics, and next-generation digital experiences. Attendees will have the opportunity to learn from a series of roadmap reviews, deep dive sessions and hands-on labs covering key topics such as leveraging Amazon Bedrock to deploy the latest generation of Amazon Nova models, building explainable AI systems, utilizing Q Developer to automate code reviews & unit testing and operationalizing data lakes for real-time analytics. By attending this conference, participants will gain practical knowledge and actionable insights to drive innovation, improve operational efficiency, and enhance customer experiences within their organizations. These sessions are targeted towards technical personas who already have an intermediate or better understanding of AWS generative AI & data services.

Agenda
Tuesday, 26ᵗʰ August:

Time (EDT)	Level	Section Title	Abstract/Description
8:00 am		Breakfast	
9:00 am	100	**Welcome and Track Keynote**	Join us as we explore AWS's vision and strategy for Generative AI. Looking across the three different track pillars you will learn about during this conference, attendees will gain a better understanding of the past and future vision for generative AI. After this session you will be prepared to articulate the better together story between AWS and your organization as you grow your generative AI practice or offering.
10:15 am		Break	
10:30 am	200	**Bedrock Overview: New Features & Roadmap**	This short session will take you through the recent updates from Amazon Bedrock by looking at the updates through each of the 5 pillars of Bedrock: Choose the best model, Customize with your data, apply safety & responsible AI checks, build & orchestrate agents and optimize for cost latency & accuracy. We will discuss the release of the new Amazon Nova Models and look ahead at the roadmap for Amazon Bedrock
11:00 am	300	**Bedrock Deep Dive Featuring Nova. Focus On ROI Modeling Through Simulated Responses Including Multi Modal ROI**	In this session we will discuss different architecture types of generative AI deployments including looking across modalities of inference using the new multi-modal Amazon Nova model family. The session will focus on cost implications of using different models for different types of generative AI deployments and different inference modalities
12:00 pm		Lunch	
1:00 PM	300	**Simplifying Multimodal Generative AI with Amazon Bedrock Data Automation**	Take a look at how Amazon Bedrock can help simplify multimodal generative AI with Amazon Bedrock Data Automation. We will provide a deep dive on Amazon Bedrock Data Automation announced at re:Invent 2024 and conduct a demo of how Amazon Bedrock data automation can be used for everything from text to images, audio and video.
1:30 pm	200	**Introduction to MCP Servers and Architecture**	
2:00 pm	300	**Agentic Best Practices Deep Dive Featuring MCP**	This technical deep dive explores comprehensive best practices for implementing enterprise-grade agentic AI systems, covering workflow orchestration, and multi-agent collaboration frameworks. Attendees will learn how to design and implement scalable, secure, and efficient agentic systems that can automate complex workflows while maintaining proper governance and observability controls.
3:00 pm		Break	
3:15 pm	300/400	**Amazon Bedrock Multi-Agent Collaboration**	Amazon Bedrock Agents is a fully managed service that enables generative AI applications to execute multistep tasks across an organization's systems and data sources. You can create an agent in Amazon Bedrock in just a few quick steps, accelerating the time it takes to build generative AI capabilities into applications. The goal of this workshop is to give you hands-on experience with Amazon Bedrock Agents new multi-agent collaboration capability, the easiest way to build, deploy and manage multiple AI agents working together.
4:45 pm		End of Day Survey	
5:00 – 6:00 pm		Welcome Reception (On-Site - Badge Required)	

Agenda
Wednesday, 27th August:

Time (EDT)	Level	Section Title	Abstract/Description
8:00 am		Breakfast	
9:00 am	100	**NGDE Welcome and Keynote**	Join us as we examine the vision for the Next Generation of Developer Experiences, where AI augmentation and human creativity combine to create unprecedented possibilities in software engineering
9:45 am	200	**Amazon Q Developer Foundations**	Get a practical introduction to Amazon Q Developer's core capabilities in this demo-focused session. Watch how to quickly set up and configure Q Developer across popular IDEs (VS Code, IntelliJ, Visual Studio), and see real-time demonstrations of code suggestions and completions in action. Through live examples, learn effective prompt engineering techniques and discover how Q Developer understands development context to provide relevant assistance. This session will demonstrate the immediate productivity gains possible with Q Developer's AI-powered capabilities
10:15 am		Break	
10:30 am	300	**Mastering Q Developer Features**	Watch expert-led demonstrations of Q Developer's sophisticated features including the /dev command for autonomous feature development, /doc command for automated documentation generation, and /review for intelligent code reviews. See how Q Developer can transform natural language requirements into production-ready code, complete with tests and documentation. Learn advanced prompt techniques that unlock Q Developer's full potential.
11:00 am	300	**Application Modernization with Q Developer**	This comprehensive session combines modern application transformation capabilities across multiple platforms. First, explore how Q Developer handles upgrading Java applications (8/11 to 17) and .NET Framework to .NET 8, including dependency management, framework updates, and Linux compatibility considerations. Then, dive into Q Developer's revolutionary mainframe modernization preview capabilities, witnessing how AI agents transform COBOL applications to modern Java code through intelligent analysis, decomposition, and migration planning. Through technical demonstrations and real-world examples, learn best practices for successful modernization projects while maintaining business logic integrity across all platforms
12:00 pm		Lunch	
1:00 pm	300	**Beyond Code: Q Developer Operations & Integrations**	Discover how Amazon Q Developer extends beyond code assistance to provide comprehensive operational and business insights. Explore Q Developer's integration with GitLab Duo and AWS services, while learning how to investigate operational issues, analyze AWS billing, understand resource usage, and troubleshoot infrastructure problems. Learn how to leverage these capabilities to maximize your AWS investment while maintaining operational excellence
1:30 pm	400	**Setting Up Q Developer for Enterprise Success**	Learn the proven approach for running Q Developer proof-of-concepts (POCs) and driving enterprise-wide adoption. Discover how to structure your POC for maximum impact by selecting the right pilot teams, configuring internal code patterns, establishing success metrics, and leveraging the new GitLab Duo integration, all while following AWS best practices for enterprise security and governance standards.
2:30 pm		Break	
2:45 pm	200	**What's Next for Q?**	Join us to discuss upcoming capabilities in Amazon Q Developer & Q Business and our vision for the future of AI-powered development. Learn about planned features across language support, IDE integrations, and transformation capabilities.
3:15 pm	400	**Hands-On with Amazon Q**	Put your learning into practice in this guided hands-on workshop. Work through real-world scenarios using Amazon Q Developer's core features, transformation capabilities, and enterprise integrations.
4:45 pm		End of Day Survey	
5:30–10:00 pm		Networking Event (Off Site - Badge Required)	

aws PartnerEquip: Live

Agenda
Thursday, 28th August:

Time (EDT)	Level	Section Title	Abstract/Description
8:00 am		**Breakfast**	
9:15 am	200	**Data Foundations Keynote**	Learn key considerations for data ingestion, storage, processing, and serving to enable large language models and other generative AI applications. The session also provides an overview of recent developments, updates, and announcements across AWS data, analytics, AI/ML, and governance.
9:45 am	200	**SageMaker Nextgen Overview: Features and Roadmap**	This short session will take you the recent announcement of Next Generation of Amazon SageMaker and its key features. We will talk about how the new SageMaker platform brings together a unified experience for data, AI projects with builder experience enhanced by Amazon Q Developer. We will also provide an overview of upcoming roadmap items across AWS data & analytics.
10:15 am		**Break**	
10:30 am	300	**Leverage Amazon SageMaker Unified Studio to Simplify Builder Experience**	In this technical session, you will see and learn how Amazon SageMaker Unified Studio brings together AWS data, analytics, artificial intelligence (AI), and machine learning (ML) services into a unified development experience. You will learn the capabilities of Unified Studio for engineers to build, deploy, execute, and monitor end-to-end workflows from a single interface.
11:15 am	300	**Building A Unified Lakehouse On Amazon SageMaker Lakehouse for Advanced Analytics & AI Applications**	We will walk you through how Amazon SageMaker Lakehouse reduces your data silos by unifying all your data. You will learn how to leverage and see a demo of this integrated lakehouse platform to serve data to power analytics and AI/ML applications.
12:00 pm		**Lunch**	
1:00 pm	300	**Vector Databases for Generative AI Applications**	In this deep dive session, you'll learn about the role of Amazon OpenSearch, Amazon Aurora, Amazon Neptune, and Amazon DocumentDB as popular choices for vector databases in generative AI applications. You will learn about various choices and considerations for vector data stores on AWS and how these vector databases integrate with Amazon Bedrock. We'll also demonstrate how AWS-managed services can power GenAI applications across various use cases.
1:45 pm	300	**Deep Dive On Oracle Database@AWS: from Deployment to Management**	This session offers a comprehensive exploration of Oracle Database@AWS offering. Key topics include Shared Responsibility Model, AWS Marketplace Integration, Provisioning Process, Architectural Overview, and Operational Workflow.
2:30 pm		**Break**	
2:45 pm	300	**OpenSearch Zero ETL Integration**	Amazon OpenSearch Service zero-ETL integration with Amazon Security Lake, enables you to perform deeper investigations, enhance threat hunting, and proactively monitor your security posture.
3:45 pm	200	**Workshop: Data Foundation for Generative AI**	This workshop will navigate through all feature and capabilities of next generation of Amazon SageMaker: Amazon SageMaker Unified Studio, Amazon SageMaker Lakehouse (for Data) and Amazon SageMaker Catalog (for data governance) to solve Analytics, AIML, GenAI application development use-cases.
4:45 pm		**Survey, Raffle Grand Prize, and Wrap-Up**	