

SANJAY MELINAMANI

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PROFESSIONAL SUMMARY

Senior Cloud Application Architect with 28+ years of experience designing and delivering enterprise-scale cloud-native platforms, modernization programs, integrations, serverless architectures, and data platforms. At AWS Professional Services, lead customer engagements from discovery and architecture through implementation, production readiness, acceptance, and operational enablement. Recognized for translating ambiguous business goals into secure, scalable AWS solutions; building reusable architecture patterns; and mentoring distributed teams across financial services, insurance, aviation, fintech, and consumer industries.

CORE SKILLS

Cloud & Serverless	AWS Lambda, API Gateway, ECS, EKS, DynamoDB, RDS/Aurora, S3, Kinesis, Flink, Glue, OpenSearch, EventBridge, Step Functions, SQS/SNS, CDK, Terraform, Azure AppService
AI / GenAI	Amazon Bedrock, SageMaker AI, Agentic Workflows, RAG, LangGraph, LangChain, Langfuse, Vector Databases, Temporal, Prompt Engineering, MCP, Agent & LLM Evaluations
Application Architecture	Java, Spring Boot, NodeJS, Python, FastAPI, JavaScript, SQL, Microservices, Domain-Driven Design, Clean Architecture, API-first Platforms, Policy-Based Access Control, Disaster Recovery, Multi-Region, Blue/Green Deployment
Modernization Architecture	Legacy Application Assessment, 5R/6R Modernization Strategy, Target-State Architecture, Transitional Architecture, Application Dependency Mapping, SLA / NFR Assessment, Cutover Planning, Production Readiness, Disaster Recovery, Multi-Region Architecture
Engineering Delivery	GitHub Actions, Jenkins, Gradle, Maven, JUnit, Jest, Mockito, K6, JMeter, Agile/Scrum, SAsFe, Jira, ServiceNow, ITIL
API, Integration & Middleware	REST APIs, Event-Driven Architecture, Kafka, IBM MQ, RabbitMQ, Apache Camel, WebSphere ESB, IBM Integration Bus, DataPower, Kong, Apigee, IBM API Connect, B2B / Enterprise Integration Gateways
Kubernetes & Platform Engineering	Kubernetes, EKS, Dapr, Helm, Kustomize, ArgoCD/GitOps, Service Mesh, Prometheus, Grafana, Fluentd, Containerized Workloads

PROFESSIONAL EXPERIENCE

Senior Cloud Application Architect | Amazon Web Services (AWS) | Atlanta, GA

2022 - Present

- Lead enterprise cloud transformation engagements across modernization, migration, serverless, distributed systems, and data platforms, owning architecture, implementation strategy, operational readiness, production adoption, and stakeholder alignment.
- Create reusable AWS architecture patterns, accelerators, and governance frameworks adopted across customer programs to improve delivery consistency, scalability, security, and operational excellence.
- Apply GenAI and agentic automation patterns to reduce discovery and assessment effort in migration programs, including application analysis, dependency mapping, modernization recommendations, and delivery workflow acceleration.

Selected AWS Engagements

AIG - VMware Exit POC | \$4.2M annual savings initiative

- Led migration architecture and technical strategy for an enterprise VMware-to-AWS modernization program spanning 800+ applications and 3,000+ servers, establishing the assessment and planning framework for large-scale VMware exit execution.
- Designed GenAI-assisted discovery and assessment workflows to analyze applications, infrastructure, dependencies, and modernization opportunities, reducing manual assessment cycles and improving migration readiness planning.
- Developed reusable modernization blueprints and governance patterns for security, observability, and operational excellence that extended beyond the initial engagement into broader AWS Professional Services reference approaches.

AIG - Global Document Management System Cloud Migration

- Architected and led migration of AIG's first cloud-native document management platform, covering 800M+ documents across North America, APAC, and EMEA with zero data loss.
- Replaced fragmented legacy components with a microservices architecture using S3-triggered Lambda functions, Spring Boot batch processors, DynamoDB, and OpenSearch, enabling sub-second document retrieval.

- Completed regional cutovers for 100+ enterprise applications and established a cloud-native disaster recovery strategy using cross-region replication and automated failover patterns.
- Built a conversational intelligent document proof of concept using LangGraph, Temporal, vector retrieval, and AWS patterns to support contextual document chat, semantic search, and AI-assisted knowledge discovery over migrated S3 content.

Amazon Air - Aviation Security IDMS Integration

- Led discovery for Air Badge credential management modernization across fragmented identity platforms including NATACS, Guardian, and Skyline.
- Facilitated a two-day cross-functional workshop that converted competing priorities into a unified backlog of 20+ user stories with clear integration touchpoints.
- Proposed a target architecture projected to reduce badge processing time by 67%, from approximately 90 minutes to under 30 minutes, while eliminating manual data entry errors.

Nasdaq - Index Transformation & Policy-Based Entitlements

- Enabled secured API modernization by delivering a centrally managed policy-based entitlements framework using Amazon Verified Permissions for fine-grained API authorization.
- Led planning, implementation, and stakeholder alignment, securing product owner buy-in and positioning the framework for integration with Nasdaq's broader index modernization goals.

Blossom Tech - Debit Card Processing Pilot

- Architected and delivered Phase 1 debit card swipe capabilities across Card Issuance, Authorization, and Network Management with EMV chip support.
- Integrated payment processing modules with Core Banking and Fraud/AML systems to support secure transaction handling, regulatory alignment, and launch readiness for digital payment services.
- Supported grooming of Phase 2 user stories for credit card swipe, security/compliance gaps, operational excellence, and feature readiness.

Amazon Treasury - BI Data Strategy & Tableau Migration

- Served as sole technical lead for Treasury BI platform discovery in the absence of a Data Architect, delivering a discovery and design document for ingestion and analytics across internal and external investment portfolios.
- Defined a data strategy to improve portfolio insight generation, operational effectiveness, and migration readiness from Tableau to QuickSight.

Coca-Cola - Global MixCodes Platform Re-architecture & CDS Migration

- Architected a reengineered Global MixCodes platform managing billions of code redemptions worldwide, improving global redemption reliability and reducing platform cost by 50%+.
- Led DynamoDB single-table design and SQL-to-NoSQL migration strategy where no internal NoSQL guidance existed, establishing reusable patterns for future Coca-Cola product teams.
- Delivered a serverless, domain-driven design implementation and completed legacy Java migration despite missing original source code, navigating ambiguity through hands-on architecture and implementation ownership.
- Led CDS 1.0 sunset and migration to AWS-based CDS 2.0 across NAOU and APAC, enabling a common global technology stack for marketing campaigns and consumer engagement.

Coca-Cola - Global Consumer Data Services 2.0

- Implemented a consumer profile data platform unifying customer data across Coca-Cola touchpoints, enabling better consumer insights, faster go-to-market for campaigns, and frictionless rollout across EMEA, LATAM, APAC, and NA with zero RTO and zero RPO.
- Built near real-time synchronization using Aurora Serverless CDC, DMS, Kinesis Streams, and Flink on Kinesis Data Analytics to support global data propagation and analytics readiness.
- Led Prospect Services development to ingest partner data, build a regional prospect database, and integrate with local data marts for segmentation and analysis.
- Implemented observability with OpenSearch, Firehose, and CloudWatch; supported multi-region and blue/green deployment patterns; mentored offshore and partner developers on AWS services and product development practices.

Technical Specialist - API, Digital Solutions & EAI | Mercedes-Benz USA | Atlanta, GA **2015 - 2022**

- Designed and delivered MBUSA's StarAPI platform on IBM API Connect, enabling enterprise-scale API governance and adoption across NAFTA.
- Built a Kubernetes-based OneAPI Gateway PaaS using Apigee and Kong, contributing hands-on implementation and deployment patterns across Kubernetes and Amazon EKS.
- Designed customer journey APIs powering Digital Service Drive, OAB, and Mercedes me applications, and architected integrations with SAP Sales and Distribution.
- Contributed to modernization of the NetStar Dealer Portal and cloud-native data pipelines migrating mainframe IBM Db2 workloads to Amazon S3 and PostgreSQL.
- Established demand and operations management practices across business units and mentored teams on Agile delivery, API-first architecture, DevSecOps practices, and product-centric delivery.

Technical Lead Consultant | TCS @ The Home Depot | Atlanta, GA **2014 - 2015**

- Led delivery of new features and enterprise enhancements for the Return to Vendor platform using Java, Spring, and REST-based services.
- Drove Agile/Scrum execution, Jira adoption, and cross-team coordination to improve delivery predictability and operational support.

Senior Software Engineer | Interface Inc. | Atlanta, GA **2012 - 2014**

- Led development and integration for enterprise B2B and B2C ecommerce platforms using IBM WebSphere Commerce, WebSphere ESB, JD Edwards EnterpriseOne, and IBM Cast Iron.
- Implemented service-oriented integration patterns that improved interoperability across ecommerce, ERP, CRM, catalog, and order management systems.

Integration & Portal Consultant | Verizon Wireless | Atlanta, GA **2008 - 2011**

- Delivered and evolved the Wholesale Customer Care Tool across portal development, enterprise integration, CI/CD automation, and release management using Java/J2EE, Spring, Hibernate, Apache CXF, Apache Camel, GWT, WebSphere Portal, and Oracle.
- Improved reliability and deployment efficiency for large-scale telecom customer support workflows through scalable B2B portal and integration solutions.

Earlier Experience **1995 - 2008**

- Held software engineering and consulting roles at McKesson, S1 Corporation, Cisco Systems, Informatica, Akrya, Xoriant, PCL Mindware, and Hamilton Research & Technology, building enterprise Java, portal, integration, metadata, client-server, and embedded systems solutions across financial services, healthcare, telecom, technology, and industrial domains.

INTERNAL PUBLICATIONS & THOUGHT LEADERSHIP

- Path to Production: Enterprise Scale Document Migration - A Proven Framework with Zero Data Loss.
- Fine-Grained, Context-Aware API Authorization at Enterprise Scale with Amazon Verified Permissions.
- DynamoDB Single Table Design: From RDBMS Thinking to Production-Grade NoSQL.
- Stream Change Data Capture from Aurora Serverless RDS to Kinesis Data Stream with DMS Replication Task.
- Node.js Lambda Functions Development and Debugging with Serverless Offline.

CERTIFICATIONS

AWS Certified Machine Learning Engineer - Associate | AWS Certified GenAI Developer - Professional | AWS Certified DevOps Engineer - Professional | AWS Certified Advanced Networking - Specialty | AWS Certified AI Practitioner | AWS Certified Developer - Associate | AWS Certified Solutions Architect - Associate | Certified SAFe 5 Agilist

EDUCATION

- B.E., Electronics & Communication | SDM College of Engineering & Technology| Karnatak University, India **1990 - 1994**
- Sainik School (Military Academy), Bijapur, Karnataka, India **1983 - 1990**