Juan Moreno 莫胡安

https://linkedin.com/in/juan-aws
https://juangedaan.github.io/
: juan.morenob@gmail.com
: (+1) 512 420 3588
: Seattle, WA (USA)
: USA & EU
: English, Spanish, Mandarin
: BSc in Physics

Professional Summary

Seasoned technology leader with 25 years of experience in infrastructure, security, distributed systems, and consumer platform architecture. As a Principal Architect at AWS, I've scaled governance frameworks, led global R&D initiatives, and driven secure platform strategies across telecom, finance, e-commerce, and consumer sectors. I bring a track record of leading cross-functional teams, mentoring engineers, and driving multi-year technical roadmaps, with recent focus on product-scale system design, real-time platform innovation, and acting as a hands-on builder.

Professional Experience

Principal Solutions Architect, Enterprise

Amazon Web Services – Seattle, WA | Jan 2025 – Present

- Architecting secure, resilient infrastructure solutions for global enterprises, aligning with compliance and governance needs.
- Partnering with cross-org stakeholders to design scalable platforms that support business-critical and consumer-facing workloads.
- Shaping org-wide architecture principles and frameworks to streamline multi-region operations and enforce consistency.

Principal Technology Evangelist, Quantum Infrastructure & Security

Amazon Web Services – Austin, TX | Feb 2022 – Dec 2024

- Spearheaded AWS's quantum cryptography programs for telco and finance customers, influencing infrastructure decisions and regulatory strategies.
- Built technical frameworks to support governance policies across cloud edge deployments, enabling secure commerce for regulated sectors.
- Created global demand for new security services through content, training, and events, increasing service adoption 10x over two years.

Sr. Manager, Solutions Architecture – Global System Integrators

Amazon Web Services – Austin, TX | Sep 2020 – Jan 2022

- Drove architecture execution for joint go-to-market with global partners.
- Delivered technical governance models for modernization initiatives in LATAM, aligning platform scalability with partner compliance frameworks.
- Supported complex multi-org migrations with distributed governance layers and localized risk controls.

Manager, Enterprise Support

Amazon Web Services – Dublin, Ireland & Austin, TX | Nov 2016 – Aug 2020

- Grew and led a 24-person team supporting mission-critical customers.
- Built internal governance protocols and playbooks to improve issue resolution and compliance tracking.
- Increased engineering team efficiency and customer satisfaction through systematic risk reviews and architecture assessments.

Early career summary

Between October 2000 and October 2016, I held progressively senior technical and leadership roles at **Capgemini & Ernst & Young**, **Ericsson**, **Telefónica O2, IBM**, and **Amazon Web Services**. At Capgemini and Ernst & Young, I contributed to early digital transformation projects for finance and government clients. At Ericsson, I delivered software and hardware integrations for European mobile network deployments. At Telefónica O2, I enhanced OSS systems for service monitoring and provisioning. At IBM, I managed outsourced delivery teams in Dublin and Shenzhen, leading critical projects for telecom operators across EMEA and ensuring high availability of core 2G/3G infrastructure. At AWS, I provided deep technical guidance to global e-commerce and telecom customers, driving the adoption of secure, scalable cloud architectures aligned with internal governance models.

Independent Consultant – Infrastructure, E-commerce, and Consumer Platforms

Global | Jan 2005 – Present

- **Social Commerce Backend & Recommendation Engine**
  Architected and developed a scalable backend platform simulating a social commerce ecosystem (#EcommercePlatforms, #ScalableSystems), integrating user profiles, product catalogs, purchase workflows, and a basic ML-based recommendation engine. Designed with Python (FastAPI), PostgreSQL, and AWS services to achieve sub-second query performance and horizontal scalability across regions. Incorporated exponential backoff and API rate-limiting strategies to maintain stability during high-load conditions. Led system design with an emphasis on modular growth and real-time user engagement features.

- **Event-Driven Logistics Tracking Platform**
  Designed a real-time logistics event processing system (#SupplyChainTechnology, #EventDrivenArchitecture) to track shipments, warehouse movements, and customer notifications. Implemented with Kafka, Python, and DynamoDB to support high-throughput, low-latency operations across multiple geographies. Delivered a merchant-facing dashboard for real-time visibility, enhancing platform reliability and operational transparency.

- **Live-Streaming Commerce Platform MVP**
  Built a lightweight live-commerce platform prototype (#ContentCommerce, #LowLatencySystems), integrating live video, interactive chat, and instant purchase capabilities during sessions. Developed a FastAPI-based backend with WebSocket integration and a mobile-responsive frontend, ensuring real-time interactions and resilient session management during peak concurrent events.

- **Serverless Orchestration for Recommendation API**
  Designed and launched a fully serverless product recommendation API (#ServerlessArchitecture, #PersonalizationSystems), triggered dynamically by user behavior events. Built using Python-based AWS Lambda functions, Step Functions, and EventBridge to orchestrate scalable, cost-optimized compute pipelines. Integrated observability, latency tracking, and retry logic using jittered exponential backoff to ensure reliability under burst traffic. Applied regional failover strategies and monitored performance with AWS X-Ray and CloudWatch metrics.

- **Global Supply Chain Visualization Dashboard**
  Engineered a real-time visualization dashboard (#GlobalLogistics, #RealTimeMonitoring) tracking shipment movements, inventory status, and delivery flows across regions. Integrated real-time event ingestion from Kafka into a dynamic TypeScript-based frontend, with Python-based ETL components aggregating logistics data. Applied latency analysis techniques to tune map refresh cycles and ensure sub-second update frequencies. Designed to support both batch-mode history views and real-time mode for live operations monitoring.