

Amit Kattyan

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PROFESSIONAL SUMMARY

Engineering Leader with 9+ years specializing in AWS infrastructure, Kubernetes and Agentic AI. Expert in designing high-availability platforms and multi-agent systems (LangGraph/RAG) for enterprise-scale applications. AWS Golden Jacket Achiever (top 1% globally) with 8x certifications. Proven track record delivering measurable business impact through technical audits, cost optimization and secure cloud architectures across UK and Europe.

TECHNICAL SKILLS

AI & Machine Learning: LangGraph, LangChain, Multi-Agent Systems, RAG (Retrieval-Augmented Generation), AWS Bedrock, SageMaker, Vector Databases, Hugging Face, Prompt Engineering, LLM Evaluation Frameworks, A/B Testing

Infrastructure & Cloud: AWS (8x Certified, Golden Jacket), Kubernetes (EKS), Terraform, Helm, GitOps, Docker, Lambda, Step Functions, RDS, DynamoDB, S3, Serverless Architecture, Event-Driven Systems, Kafka

DevOps & Observability: CI/CD (GitHub Actions), Prometheus, Grafana, Datadog, IAM, SSO/RBAC, KMS, TLS, VPC

Data: Airflow, Snowflake, ETL Pipelines, Data Lakes, Real-time Streaming, Event Processing, Data Governance

Programming: Python, SQL, Bash

PROFESSIONAL EXPERIENCE

Data Engineer & AI Platform Lead | Betsson Group, Malta, EU

Jul 2025 – Present

- Architected event-driven serverless ingestion platform using Terraform, EKS and Kafka reducing deployment lead time by 60% and standardizing GitOps workflows across 6 product teams
- Designed high-availability Kubernetes clusters with multi-zone deployments and auto-scaling maintaining 99.9% uptime for real-time betting data streams processing millions of events per second
- Developed agentic AI system using LangGraph and AWS Bedrock for automated risk monitoring implementing state management for long-term memory and RAG patterns reducing manual intervention by 40%
- Engineered evaluation frameworks for LLM agents using A/B testing and prompt optimization improving risk detection accuracy by 35% while ensuring secure tool integration via RBAC and TLS
- Optimized platform cost efficiency by 22% through right-sizing of RDS instances and implementing automated backup and disaster recovery strategies

AWS Architect & Technical Lead | Accenture, London, UK

Apr 2022 – Nov 2024

- Led technical assessments and infrastructure audits for UK public sector clients (NHS, Home Office) designing secure AWS landing zones compliant with GDS standards serving 2M+ users
- Directed large-scale migrations from on-premises to AWS using Terraform and Helm achieving 40% annual cost savings and establishing disaster recovery solutions with 99.99% availability
- Implemented enterprise observability using Prometheus, Grafana and Datadog reducing Mean Time to Resolution by 30% through automated alerting and log aggregation
- Standardized CI/CD pipelines for infrastructure and applications integrating SSO/RBAC and secrets management reducing security vulnerabilities by 60%
- Secured £2M+ in follow-on enterprise engagements through architectural excellence and stakeholder management

AWS Consultant | Genpact, Pune, India

Jun 2021 – Jan 2022

- Designed S3-based data lakes and relational database architectures with replication and backup strategies optimizing storage costs by 35% for global finance clients
- Built serverless ETL pipelines using Python and AWS Glue improving data processing reliability to 99.5% and reducing manual operational overhead by 70%

Application Development Senior Analyst | Accenture, Pune, India

May 2016 – Jun 2021

- Engineered end-to-end data pipelines using Redshift and Lambda improving query performance by 60% through advanced partitioning and sizing strategies
- Mentored team of 3 junior engineers on secure development practices maintaining zero security incidents across all production deployments over 2-year period

KEY PROJECTS

AI Career Conversation Agent | https://huggingface.co/spaces/amitkattyan01/career_conversation

- Built production-grade conversational AI chatbot using LangChain and Hugging Face with RAG patterns for intelligent career guidance enabling natural multi-turn conversations

Multi-Agent Risk Monitoring System

- Developed LangGraph-based multi-agent system with AWS Bedrock and vector databases for real-time anomaly detection achieving 40% reduction in manual intervention

CERTIFICATIONS & AWARDS

- **AWS Golden Jacket – Top 1% of AWS practitioners globally (8x Certified)**
- AWS Certified Solutions Architect – Professional
- AWS Certified DevOps Engineer – Professional
- AWS Certified Security – Specialty
- AWS Certified Advanced Networking – Specialty
- AWS Certified Machine Learning – Specialty

EDUCATION

Bachelor of Technology in Electronics & Communications Engineering

KIIT University, India (2012 – 2016)