

JAGANNATH PANDA

TECHNICAL CLOUD ARCHITECT | CLOUD STRATEGY & PLATFORM ENGINEERING LEADER

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SUMMARY

Cloud technology leader with 14+ years architecting enterprise-grade multi-cloud platforms across AWS, Google Cloud Platform, and Microsoft Azure delivering cumulative TCO savings, leading engineer platform teams, and driving digital transformation for financial services, global payments, and consumer technology enterprises. Proven track record in platform engineering, Kubernetes at scale, FinOps governance, and Generative AI integration (Amazon Bedrock, LangChain, RAG pipelines). **IIM Kozhikode Senior Management Programme** alumnus who bridges deep technical architecture with strategic business outcomes — from executive advisory and practice building at IBM to delivering zero downtime migrations and AI platform strategies.

TECHNICAL SKILLS

AWS (Expert), GCP, Azure, IBM Cloud	Terraform, Pulumi, Ansible, CloudFormation
Kubernetes (EKS/GKE/AKS), Helm, ArgoCD	Amazon Bedrock, LangChain, RAG, MLOps
Istio (Service Mesh), Docker, OpenShift	Zero Trust, IAM, OPA/Kyverno, SOC 2
Backstage, Flux, Karpenter, FinOps	Datadog, Prometheus, Grafana, OpenTelemetry
Python, Bash, Go, YAML/HCL, Java	CI/CD, GitOps, SRE, SLO/SLI/SLA
Agile/SAFe, ITIL, TOGAF, DORA, OKRs	Well-Architected Framework

PROFESSIONAL EXPERIENCE

Technical Cloud Architect, IBM, Bengaluru Mar 2024 – Present

Project 1: Enterprise Multi-Cloud Landing Zone with Developer Platform for Palo Alto Cortex Cloud

Technical Execution: Architected multi-cloud landing zones (AWS + Azure) with Palo Alto Cortex Cloud security integration, delivering a Backstage-powered Internal Developer Platform with GitOps pipelines (OpenShift, Tekton, Terraform) and policy-as-code governance (Sentinel, OPA) — reducing workload onboarding from 2 weeks to 30 minutes with 100% CIS compliance at provisioning.

Strategic Business Impact: Led cross-functional stakeholder alignment across IBM, Palo Alto Networks, and client CTO/CISO leadership to define delivery timelines and shared responsibility models. Packaged the solution as a reusable practice accelerator with pre-sales collateral, shortening future client solutioning cycles by 40% and contributing to 3 new enterprise deal closures.

Project 2: ML/AIOps Deployment Strategies for Enterprise AI Platform

Technical Execution: Designed end-to-end AIOps architecture with Helm-packaged AI microservices, Backstage self-service onboarding templates, and GitOps delivery pipelines (OpenShift, Tekton, ArgoCD, Terraform) — enabling governed, repeatable AI deployments with model promotion gates, responsible AI guardrails, and automated inference cost metering across enterprise Kubernetes environments.

Strategic Business Impact: Drove cross-functional alignment between data science, ML engineering, platform, and security teams — eliminating organizational silos causing 60% of AI project delays. Packaged the framework as an IBM go-to-market AI offering with reusable templates and architecture decision records, accelerating client AI platform implementations by 50%.

Principal Engineer, Coffeebeans Consulting, Bengaluru May 2022 – Mar 2024

Project 1: On-Premises to GCP Migration for a High-Traffic Consumer Web Platform

• **Architecture & Cloud Delivery:** Led GCP migration of a 10M-user platform — GKE Autopilot (backend), Cloud Run + CDN (frontend), Cloud SQL via DMS (< 10-min cutover) — with GDPR-compliant infrastructure (Cloud Armor, DLP tokenization, right-to-erasure automation) and progressive CI/CD via Cloud Build with Binary Authorization.

• **Stakeholder Engagement & Practice Growth:** Led cross-functional delivery across application, database, security, and operations teams; presented migration ROI to client CTO leadership and packaged the approach as a reusable migration framework.

Project 2: Enterprise Kubernetes Platform Strategy and EKS Landing Zone (Fortune-100 Financial Services)

• **Platform Architecture & Security Engineering:** Designed EKS landing zone consolidating 342 microservices with four-layer security (Cosign, OPA Gatekeeper, Calico, Falco), Backstage self-service portal, GitOps namespace provisioning, and continuous SEC/FINRA/OCC compliance via AWS Config and Kyverno auto-remediation.

• **Executive Alignment & Regulatory Governance:** Led cross-functional alignment across 50+ dev teams and client CTO/CISO stakeholders; established CIS Kubernetes Benchmark compliance reducing audit prep from weeks to hours, and packaged the solution as a reusable financial services accelerator.

Technical Lead DevOps, Plansource, Bengaluru Aug 2021 – May 2022

Project 1: Multi-Region Disaster Recovery for a Global Payments Platform

Architected a multi-region DR solution for a global payments platform using Aurora Global Database, EKS-based microservices, and real-time Kinesis streaming — reducing RTO from 3+ hours to under 30 minutes with full PCI DSS and GDPR compliance. Owned

and delivered the \$2.1M initiative across a 12-week phased migration, building downtime cost models that secured executive approval while achieving 34% cost optimization through Graviton instances and right-sized reserved capacity. Established DR governance with quarterly chaos engineering drills (AWS Fault Injection Simulator), automated compliance evidence collection, and RPO/RTO SLA monitoring — transforming DR into a practiced organizational capability.

Project 2: Event-Driven Architecture for Business-Critical Order Fulfillment at Scale

Re-architected a 14-step synchronous monolith into an event-driven platform using Step Functions Express Workflows (5-step critical path) and EventBridge fan-out (9 async consumers), replacing PostgreSQL row-level locking with DynamoDB conditional writes to break the 5,000 orders/minute throughput ceiling. Engineered configuration-driven fulfillment center expansion (12 → 25 locations) without code deployments, presenting the business-enabling narrative to product leadership that directly influenced geographic expansion strategy. Led cross-functional transformation across 14 interdependent services with zero order loss, driving an engineering culture shift to event-driven design through architectural workshops for 10+ engineers.

Cloud & Infrastructure Engineer → Senior Engineer | Eagleview / Simplilearn / Adobe / Samsung / TCS Sep 2011 – Aug 2021

- Centralized DNS across hundreds of VPCs and AWS accounts using Route 53 Profiles, Resolver Inbound/Outbound Endpoints, structured namespace hierarchy, and Multi-AZ redundancy — eliminating manual PHZ associations, enabling automatic DNS inheritance, and delivering unified cross-account query logging with a Terraform-based GitOps pipeline for multi-region governance.
- Deployed AWS Network Firewall with Suricata IPS for symmetric traffic inspection, Route 53 DNS Firewall for malicious domain blocking, and centralized logging (CloudWatch, GuardDuty) — replacing basic security groups and unfiltered NAT egress with defense-in-depth architecture, all governed through IaC-automated CloudFormation pipelines.
- Established organizational foundations for GitOps-driven infrastructure, shift-left security culture, and microservices architecture — laying the platform and process groundwork that enabled the team's evolution from manual operations to a modern, governed cloud engineering practice.
- Pioneered IaC adoption (CloudFormation), built cloud security automation with Python/Boto3 for IAM and S3 compliance scanning, and led containerization strategy — architecting the first production EKS cluster with container standards and CI/CD integration points.

KEY PROJECTS & ENGAGEMENTS

EKS Landing Zone & Platform Consolidation | Fortune-100 BFSI | 342 microservices

- **Problem:** Fragmented container environments (ECS + self-managed K8s) across a Fortune-100 bank created regulatory risk, operational overhead, and inconsistent developer experience.
- **Solution:** Delivered standardised EKS cloud landing zone with four-layer security, Backstage developer portal, GitOps namespace provisioning, and continuous SEC/FINRA/OCC compliance via Kyverno and AWS Config.
- **Outcome:** 60% reduction in operational complexity; 99.99% control plane availability; audit prep reduced from weeks to hours; 50+ teams onboarded; packaged as reusable financial services accelerator.

Enterprise FinOps Transformation | Enterprise IT | 180 AWS accounts, \$1.5M overspend

- **Problem:** 180-account AWS Organisation overspending \$1.5M annually with no cost accountability, orphaned resources, and unmanaged 8 PB of S3 storage.
- **Solution:** Executed comprehensive cloud cost optimisation: Graviton3 migration, VPC Gateway Endpoints, dev scheduling automation, S3 lifecycle policies, rightsizing 200+ instances, and FinOps governance via SCPs and Cost Anomaly Detection.
- **Outcome:** \$600K+ annual savings (40% reduction); FinOps governance established as ongoing discipline; methodology packaged as IBM reusable accelerator; expanded to multi-year retainer.

CERTIFICATIONS

AWS: Solutions Architect Professional, DevOps Engineer Professional, Security Specialty, Advanced Networking Specialty, Machine Learning Specialty, Data Analytics Specialty, Database Specialty, Solutions Architect Associate

Azure: Azure Solutions Architect Expert (AZ-303)

GCP: Professional Cloud Architect

ML/AI: Google TensorFlow Developer, CNN in TensorFlow

EDUCATION

Senior Management Programme | Indian Institute of Management, Kozhikode (IIM-K) 2025 – 2026

Executive education in strategic management, business leadership, and organisational transformation

B.Tech | Sanjay Memorial Institute of Technology, BPUT 2007 – 2011

THOUGHT LEADERSHIP

Speaking: Internal IBM Cloud COE technical sessions on multi-cloud landing zones, platform engineering best practices, and FinOps governance; client advisory workshops at Fortune-100 financial institutions.

Publications: Technical articles on cloud architecture, Kubernetes at scale, Generative AI platform strategy, and FinOps governance for enterprise audiences.

Practice Building: Created reusable architecture accelerators, compliance template libraries, and pre-sales collateral adopted across IBM and Coffeebeans cloud practices.