

E KRISHNA S KUMAR A

Agentic AI Platform Architect • GenAI Governance • Enterprise BFSI

19 Years • Purple Fabric • AI-DLC Pioneer • Multi-Agent Systems • LLM Governance & FinOps

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PROFESSIONAL SUMMARY

Agentic AI platform architect with 19 years of experience building enterprise-grade platforms for banking, financial services and insurance. Platform Solutions Architect for Intellect's **Purple Fabric** — an enterprise Agentic AI platform to build, deploy and govern AI agents at scale. Designs the control plane that makes GenAI production-safe in regulated environments: **Model Hub and LLM-agnostic routing, quota and token-cost enforcement, rate limiting, runtime policy enforcement across the agent lifecycle, and tamper-evident audit**. Pioneered **AI-DLC (AI-Native Development Lifecycle)**. Consistent 20–60% gains in cost, performance and efficiency; trusted architecture partner in C-suite and Tier-1 bank engagements.

60% cost reduction Fabric Lite	45% performance gain Token Generator	40% higher throughput DMS Lite	35% TAT improvement Request caching	30% cost reduction Knative serverless	95%+ RAG accuracy Digital Experts
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GENAI & AGENTIC AI PLATFORM HIGHLIGHTS — PURPLE FABRIC

- Agentic Document Intelligence** — Architected agentic document/file handling: dual-channel extraction, provenance-as-taint tracking, quarantine of untrusted content, and vector-backed agent context (LanceDB) on top of RAG ingestion pipelines delivering 95%+ accuracy.
- Model Hub Architecture** — Designed the LLM-agnostic Model Hub — model registry, capability contracts and pluggable adapters (Ports & Adapters / Binding Registry), best-fit model selection per task, and pricing formulas that drive token-based (PFT) cost metering.
- Quota Management & Enforcement** — Built the Quota Enforcement System (QES): plan lifecycle (Draft → Active → Deprecated → Archived → Deleted), entitlement overrides, two-layer Redis cache for low-latency checks, and token FinOps governance across tenants.
- Rate Limiting** — Designed a pluggable rate-limiting sideplane (plug/unplug model) with four named hook points, enforcing tenant- and model-level limits without coupling to core services.
- Agentic Workflow** — Architected multi-agent workflow orchestration with cross-tenant clone-and-own templates, version pinning, drift detection and auto-update policies.
- Notification System** — Designed an event-driven, multi-channel notification service for agent, workflow and governance events across tenants.
- Secure Export / Import** — Designed secure cross-environment asset promotion using KMS envelope encryption and re-encryption (kms:ReEncryptTo) on AWS Control Tower, preserving tenant isolation and integrity.
- Agent SDK** — Shaped the Agent SDK and Python AI runtime that let teams build, test and ship governed agents on Purple Fabric with built-in policy and telemetry hooks.
- Client Engagements** — Lead architect for Tier-1 Indian bank engagements — C-suite architecture workshops, RFI/RFP responses on model-agnostic architecture, multi-agent orchestration, governance and feedback loops, and solution design.

AI GOVERNANCE, SECURITY & COMPLIANCE

- Runtime Enforcement** — Six-plane agent enforcement model (ingress, context assembly, plan validation, tool invocation, egress, inter-agent boundaries) with H1–H4 hook points, mapped to the OWASP Agentic AI threat taxonomy.
- Audit & Traceability** — Tamper-evident audit/activity log using CloudEvents, Debezium CDC and hash-chained WORM storage with ClickHouse as the read store.
- Identity & Access** — Casbin-based cross-tenant sharing authorization (RBAC/ABAC/ReBAC); PAT authentication for B2B/ISV machine-to-machine flows; SSO with JIT provisioning and SCIM 2.0; IdP-agnostic tenant resolver (Keycloak, Azure AD, Okta).
- Observability & Compliance** — OpenTelemetry GenAI conventions for traces and token usage metering; DPDP-aligned data handling for multi-tenant deployments.

WORK EXPERIENCE

Platform Solutions Architect — Agentic AI & GenAI Governance

2023 – Present

Intellect Design Arena Ltd. (Purple Fabric) | Hyderabad

- Design authority for the Purple Fabric platform stack — multi-agent orchestration, Enterprise Knowledge Garden, LLM Optimization Hub and EnterpriseGPT — deployed across large enterprise environments.
- Pioneered AI-DLC (AI-Native Development Lifecycle), replacing traditional SDLC with an AI-native workflow for designing, building and shipping agents at significantly higher velocity; nominated for DevSparks recognition for AI-DLC adoption.
- Designed 65+ purpose-built Enterprise Digital Experts automating customer service, compliance, underwriting and operations workflows.

- Established the enterprise LLM governance framework — traceability, audit trails, data-privacy controls, quota and cost guardrails — aligned with BFSI regulatory expectations.

Technologies: Java, Python, LangChain, RAG, Multi-Agent, Vector DBs, AWS, Kubernetes, Spring Boot, PostgreSQL, MongoDB, Redis, Keycloak, Kong, Casbin, OpenTelemetry

Head of Platform Engineering

2017 – 2023

Intellect Design Arena Ltd. (Intellect FABRIC) | Hyderabad

- Owned end-to-end platform engineering for Intellect FABRIC, a cloud-native, ML-powered platform deployed across global insurance markets; led a cross-functional team of 15 engineers.
- Defined architecture standards for microservices scalability, zero-downtime deployments and security on Kubernetes-on-AWS.
- Delivered DMS Lite (+40% throughput), Token Generator (+45% performance), Fabric Lite (60% cost reduction) and Knative migration (30% cost reduction); cut request TAT 35% via caching and resolved a critical production TLS failure.

Technologies: Java 11, Spring Boot, Docker, Kubernetes, Knative, Redis, Keycloak, Kong, MongoDB, Jenkins, Prometheus, Grafana

Senior Technical Lead — RBC Engagement

2012 – 2016

Intellect Design Arena Ltd. | Hyderabad

- Redesigned the Royal Bank of Canada Agent Portal, integrating GCB, LiveConnect, eSales and AS400; upgraded Intellect BCS to Resource-Oriented Architecture. Awarded the Chairman's Excellence Award.

Earlier Career

Technical Lead, Polaris Software Labs (2010 – 2011) · Senior Software Engineer, SEEC Asia (2007 – 2010)

- Delivered Intellect BCS for Allianz Australia (20% efficiency gain, GEM Excellence Award); led full SDLC for the ASERA enterprise eCommerce platform.

TECHNICAL SKILLS

GenAI & Agentic: LangChain, LangGraph, RAG, multi-agent orchestration, AWS Bedrock, EnterpriseGPT, vector DBs (Qdrant, LanceDB), evals

Governance & Security: Casbin (RBAC/ABAC/ReBAC), OAuth 2.0/OIDC, Keycloak, Kong, KMS envelope encryption, OWASP Agentic AI, DPDP

Cloud & Platform: AWS (Lambda, SQS, IAM, Control Tower), Kubernetes, Docker, Knative, Spring Boot, Quarkus

Data & Observability: PostgreSQL, MongoDB, Redis, ClickHouse, Debezium, OpenTelemetry, Prometheus, Grafana

Languages: Java (primary), Python

INNOVATION & THOUGHT LEADERSHIP

- **Torvi — Agentic AI for Communities (2024 – Present)** — Independent WhatsApp-first agentic AI product for residential society management on AWS Bedrock, Lambda, SQS FIFO and DynamoDB; piloting with live users.
- **Publications (Medium · Kindling Knowledge)** — The Architecture Tax (System Weakness — Editor's Pick); From API-First to AI-First; Chatbots to Agentic AI; AI Agents vs Agentic AI; The Future of AI is Collaborative.

RECOGNITION & EDUCATION

Best Technical Architect Award (Intellect, 2023) · **Konark Award** (Intellect, 2021) · **Chairman's Excellence Award** (RBC) · **GEM Excellence Award** (Allianz Australia)

B.Tech. — Computer Science & IT, Jawaharlal Nehru Technological University, Hyderabad