

# Amant Kumar.

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## PROFILE

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Backend, platform, and AI infrastructure engineer with 11+ years designing production distributed systems across JVM and Python stacks - Java, Kotlin, Python, Spring Boot, FastAPI, Kafka, Redis, MongoDB, and Kubernetes. Led backend architecture for telecom-scale commerce platforms, drove reliability and latency improvements across microservices, and later led AI platform work at Deutsche Telekom Digital Labs. Currently building agentic infrastructure focused on deterministic execution, observability, durable workflows, and human-in-the-loop control.

## SELECTED IMPACT

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- Led AI competency and built JVM-native agent runtime later open-sourced as Eclipse LMOS.
- Reduced API latency up to 80% through reactive rewrites, caching, async decomposition, and query optimisation.
- Architected catalog, cart, checkout, and onboarding services for production telecom traffic.
- Built RBAC/SSO permission platform adopted across 100+ internal enterprise tools.

## CORE SKILLS

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<b>LANGUAGES</b>	Java · Kotlin · Python · TypeScript · SQL	<b>BACKEND</b>	Spring Boot · FastAPI · Spring WebFlux · Reactive · Microservices · REST · gRPC
<b>DISTRIBUTED</b>	Event-Driven Architecture · Kafka · CQRS · Saga · Idempotency · Backpressure	<b>DATA</b>	PostgreSQL · MongoDB · Redis · Vector DBs · RAG · Embeddings
<b>PLATFORM</b>	Kubernetes · Docker · Observability · Performance Tuning · API Gateway · RBAC	<b>AI INFRA</b>	Agentic Orchestration · MCP · OpenAI Responses API · LLM Serving · Human-in-the-Loop · LLM Ops
<b>LEADERSHIP</b>	Technical Strategy · Architecture Reviews · Mentoring · Cross-Team Delivery	<b>PRACTICE</b>	API Design · Domain Modelling · Platform SDKs · Evals · Guardrails · DevEx

## OPEN SOURCE & TALKS

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- Eclipse LMOS** - open ecosystem for LLM operating systems and agentic infrastructure primitives; originated from the in-house agentic platform at Deutsche Telekom. **OPEN SOURCE**
- AgC (Agentic Compute)** - OpenAI Responses API-compatible model orchestration platform for tool use, agent runs, and observable execution. **OPEN SOURCE**
- Linux Foundation Open Source Summit** - speaker on Eclipse LMOS and production agentic infrastructure; Hyderabad, India. **TALK**
- AgC Sovereign Voice Agent** - live demo of agentic voice infrastructure and model orchestration. [linkedin.com/posts/amant-kumar-a7811548](https://www.linkedin.com/posts/amant-kumar-a7811548) **DEMO**

## EXPERIENCE

### Founding Member, AI & Technology Lead · AI Stealth Startup

FEB 2025 - PRESENT

Stack Kotlin · Python · Spring Boot · FastAPI · Kafka · Redis · Kubernetes · LLM Orchestration · MCP

- Architecting backend infrastructure for reliable agentic systems - deterministic execution, durable workflows, idempotent tool calls, and audit trails for AI-generated actions on JVM event-driven primitives.
- Designing platform APIs and SDKs that let engineers compose, observe, replay, and intervene in agent runs using service-like abstractions rather than prompt-only workflows.
- Built AgC (Agentic Compute) - an open-source, OpenAI Responses API-compatible orchestration platform for model routing, tool execution, context handling, and run observability.
- Driving engineering end-to-end as founding technical lead - architecture, API design, infrastructure, delivery sequencing, and developer experience.

### AI Lead Engineer · Deutsche Telekom Digital Labs

NOV 2020 - FEB 2025

Stack Java · Kotlin · Python · Spring Boot · FastAPI · WebFlux · Kafka · MongoDB · Redis · Kubernetes · LangChain

- Led backend architecture and delivery across telecom commerce and AI platform initiatives - catalog, cart, checkout, onboarding, and agentic workflows on distributed Spring Boot and Kafka services.
- Defined event-driven service patterns across microservices owned by multiple teams: bounded contexts, async messaging, retry semantics, idempotent consumers, and observability hooks.
- Modernised a multi-million-dollar telecom platform - cut API latency by up to 80% through reactive rewrites, query optimisation, caching, and removal of synchronous chains across services.
- Built scalable backend services and Kafka integrations for digital onboarding journeys, supporting acquisition of 800K customers through resilient producers, consumers, retries, and failure handling.
- Led DT's AI competency and shipped early production LLM systems - customer-service assistants serving millions across Europe and internal tooling embedding AI agents into developer workflows.
- Built the in-house agentic AI platform later open-sourced as Eclipse LMOS - JVM-native agent runtime, tool integration, orchestration primitives, and production telecom workload support.

### Senior Associate · Publicis Sapient

SEP 2019 - NOV 2020

Stack Java · Spring Boot · OAuth2 · RBAC · REST · PostgreSQL

- Built backend platform services at Lowe's for enterprise warehouse tooling used across stores, with focus on access control, reliability, and platform reuse.
- Built a centralised Permission Manager and auth module standardising RBAC and SSO across 100+ internal tools and replacing fragmented per-application implementations.

### SDE II · Hindustan Times

APR 2018 - SEP 2019

Stack Java · Spring Boot · MongoDB · Redis · REST

- Built BlankPaper CMS from the ground up - the content platform powering Hindustan Times and LiveMint, handling editorial workflows at national-newsroom scale.
- Owned backend architecture, performance tuning, and security hardening - caching strategy, query optimisation, and reliability work keeping publishing flows online during traffic spikes.

## EXPERIENCE

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### Application Consultant · Snug Technologies / Avaya India

FEB 2017 - MAR 2018

Stack Java · Spring · JavaScript · REST

- Delivered core modules for enterprise communication applications including Unikonnnect and SurveyApp.
- Designed a node-and-edge flow designer for SurveyApp, supporting complex call-flow and survey configuration in a workflow-heavy enterprise context.

### Software Engineer · Infogain

OCT 2014 - JAN 2017

Stack Java · Spring · SQL Server · REST

- Contributed to NCR APTRA Vision - an ATM management platform for enterprise banking - focusing on backend engineering, stability, and performance optimisation.
- Awarded the JE Award for outstanding contribution and delivery.

## EDUCATION & AWARDS

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### EDUCATION

#### B.Tech, Computer Science

Amity University, Gurgaon · 2010-2014 ·  
CGPA 8.18

### AWARDS

Magenta Hero Award (DTDL) · Invincibles 2023 (DTDL) ·  
JE Award (Infogain) · Spot Award · T-Star Award · Key  
Contributor Award