

Adarsh Kumar

BACKEND & PLATFORM ENGINEER

CLOUD CONTROL PLANES · DISTRIBUTED SYSTEMS

Bengaluru, Karnataka +91 74836 36782 adarshkumar167@gmail.com LinkedIn GitHub

Backend/platform engineer building enterprise cloud control planes that keep policy and state correct across long-running, failure-prone infrastructure workflows—from quota reservation and capacity placement through provisioning, retries, failure compensation, and audit trails. 2+ years of full-time software engineering experience; primary production stack is TypeScript, NestJS, Node.js, MongoDB, PostgreSQL, Kafka, and RabbitMQ.

POLICY CORRECTNESS Quota reservation · release on failure · capacity placement	STATE CORRECTNESS Idempotency · reconciliation · explicit final states	SAFE EVOLUTION Audit identity · legacy fallbacks · staged migration
--	--	---

01 EXPERIENCE

InfosysAug 2024 – Present · Bengaluru

Specialist Programmer · Enterprise Cloud Platform

TypeScript · Node.js · NestJS · REST · GraphQL · MongoDB · PostgreSQL · Kafka · RabbitMQ · React · Java microservices

- Protected quota integrity.** Designed CPU, memory, and storage controls across request and approval flows—aggregating consumption, reserving in-flight demand, releasing reservations after failed provisioning, and feeding capacity-aware, multi-location placement to prevent over-allocation and leaked reservations.
- Reconciled distributed state.** Built event-driven registration, deletion, and status synchronization across REST APIs, Kafka, RabbitMQ, and workflow orchestration; reconciled inventory and infrastructure records, released quota, and propagated explicit final states after partial failures.
- Made asynchronous retries safe.** Implemented idempotent managed-service creation under repeated webhook delivery, blocking duplicate resources and validating identifiers and lifecycle transitions before persistence.
- Moved failure detection left.** Hardened Linux and Windows provisioning across compute, OS layout, networking, storage, templates, and credentials; automated IP/DNS lifecycle cleanup and resolved high-severity paths that became stuck, failed late, or finalized incorrectly.
- Made audit data self-contained.** Led a nine-component initiative capturing normalized actor identity at write time across REST, webhook, approval, and messaging flows—retaining existing identifiers without adding runtime directory lookups.
- Evolved contracts without breaking history.** Migrated application metadata across frontend, backend, and workflow paths using standardized keys with legacy fallback reads, preserving historical resources during staged adoption.

02 ENGINEERING PRACTICE

Quality. Embedded unit and integration-focused validation across DTO, controller, service, repository, component, webhook, and messaging boundaries, covering malformed input, missing state, asynchronous failures, and backward compatibility.

Leverage & mentorship. Applied reusable steering rules, MCP integrations, and specialized review agents for cross-repository analysis, implementation planning, semantic review, and targeted validation; guided peers on edge cases, failure paths, and test expectations.

03 EARLIER EXPERIENCE

Rupeek · Engineering Intern Jul 2024
Built a Flutter transaction-summary interface for credit-card utilization.

Cumulations Technologies · Software Developer Intern Jan 2024 – Jun 2024
Shipped features across 5+ Flutter projects spanning health monitoring, PDF tooling, and offline navigation.

Aadi Foundation · Android Developer Intern May 2023 – Aug 2023
Built a Flutter quiz application.

04 TECHNICAL TOOLKIT

CORE
TypeScript, JavaScript, Node.js, NestJS, SQL, Java

SYSTEMS
REST, GraphQL, microservices, event-driven architecture, idempotency, distributed systems, workflow orchestration

DATA & MESSAGING
MongoDB, PostgreSQL, Redis, Kafka, RabbitMQ

QUALITY & DELIVERY
Jest, Git, GitLab CI/CD, Docker, n8n, Splunk, Jira

ADDITIONAL
React; C++ (DSA/interview programming); Python (data science/ML coursework); Flutter

05 EDUCATION

IIITDM Jabalpur
B.Tech, Computer Science and Engineering
Jul 2020 – Jun 2024 · CGPA: 7.93/10

06 CREDENTIALS

- Anthropic** · Claude Certified Architect — Foundations Jul 2026
- Google** · Certified Partner Specialist — Gemini Enterprise Agent Development; Gemini Enterprise Deployment Jul 2026
- Microsoft** · Azure AI Engineer Associate Apr 2025