

Abhinav Kumar

Solution Architect | Cloud & Platform Architecture | Telecom BSS

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Architect Profile

Solution Architect with 15+ years of experience owning architecture and delivery of large-scale, high-volume systems in Telecom BSS. Proven track record of designing and governing cloud-native, event-driven architectures handling millions of transactions under strict processing constraints.

Drives end-to-end architecture decisions, system decomposition, and non-functional design (scalability, resiliency, cost) while enabling engineering teams to deliver high-quality solutions. Combines deep domain expertise with hands-on cloud, Kubernetes, and Infrastructure-as-Code to build scalable and reliable platforms.

Skills

- **Architecture Ownership**: End-to-end system architecture, decision governance, design authority
- **Distributed Systems**: Event-driven architecture, microservices, async processing, integration design
- **Cloud & Platform**: AWS, Kubernetes, Terraform, CI/CD (GitHub Actions)
- **Non-Functional Design**: Scalability, availability, performance, cost optimization
- **Engineering Leadership**: Technical guidance, design reviews, mentoring engineers
- **Domain Expertise**: Telecom BSS (Billing, Charging, Invoicing, CRM)

Technical Stack

- **Cloud**: AWS (EC2, S3, Lambda, API Gateway, VPC, IAM, CloudWatch)
- **Containers**: Kubernetes, Docker
- **Infrastructure as Code**: Terraform
- **CI/CD**: GitHub Actions

Professional Experience

Solution Architect – Telstra Global Services (Mar 2024 – Present)

- Decomposed monolith into domain-aligned microservices
- Scaled system to support 310M+ customers and millions of billing transactions per cycle
- Introduced event-driven architecture using async messaging to decouple service interactions and reduce cascading failure by ~40%
- Accepted controlled processing delay (few seconds SLA) in exchange for system stability and throughput
- Improved system availability from ~99.2% to ~99.9%+ during peak cycles
- Defined API contracts (TMF-compliant) for standardized service communication handling 30–40K daily calls with controlled rate handling and fault tolerance.

Solution Architect – CRM Platforms – Netcracker Technology (Dec 2022 – Mar 2024)

- Architected distributed CRM/BSS systems handling high-volume transactions across multiple integrations
- Defined system decomposition and service boundaries, reducing tight coupling across components
- Standardized integration patterns (API + async messaging) improving system resilience
- Reduced cross-system dependency failures by ~25% through better interaction design
- Led architectural alignment between business workflows and scalable system design

Earlier Professional Experiences: (2011 – 2022)

- Solution Architect – Amdocs (Jan 2022 – Nov 2022)
- Subject Matter Expert – Amdocs (Mar 2015 – Dec 2021)
- Quality Analyst – Netcracker, 2014-2015
- Test Engineer - Tech Mahindra, 2011 – 2013

Selected Architecture Work

- **Multi Environment AWS Production Ready Architecture with Private, Public Instances, Load Balancers, VPC Endpoints and S3 bucket using Terraform**
 - [GitHub: https://github.com/abhinavcloud/Three-Tier-AWS-Architecture-Terraform](https://github.com/abhinavcloud/Three-Tier-AWS-Architecture-Terraform)
- Owned architecture and design of repeatable multi-environment infrastructure (dev/test/prod)
- Defined modular Terraform architecture enabling consistency and environment isolation
- Implemented CI/CD-driven infrastructure deployment using GitHub Actions
- Eliminated static credentials using OIDC-based secure authentication
- Established remote state management for safe and concurrent infrastructure operations
- Enabled scalable, secure, and consistent deployments across environments

Certifications

[Credly: https://www.credly.com/users/abhinav-kumar.9c24f238/badges#credly](https://www.credly.com/users/abhinav-kumar.9c24f238/badges#credly)

- **Cloud:** AWS Solutions Architect – Associate, AWS Developer – Associate, AWS SysOps Administrator – Associate
- **Infrastructure as Coded (Iac):** Hashicorp Terraform Associate
- **Microservices and Container Orchestration:** Certified Kubernetes Administrator (CKA), Kubernetes and Cloud Native Associate (KCNA)
- **CI/CD:** Microsoft GitHub Actions Associate
- **AI:** AWS AI Practitioner

Education:

B.Tech in Electronics and Communications, ICFAI University, 2006-2010