Abhinav Kumar

Solution Architect | Cloud & Platform Architecture | Telecom BSS
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Architect Profile

Solution Architect with 14+ years of experience across Telecom BSS systems, currently owning enterprise invoicing and billing modernization initiatives. Experienced in architecting integration-heavy platforms handling millions of business transactions per billing cycle, with a strong focus on scalability, reliability, and long-term maintainability.

Deep domain expertise in Telecom BSS (Billing, Charging, Invoicing, Payments, CRM) combined with hands-on experience in AWS cloud-native and event-driven architectures. Known for making pragmatic architectural decisions under enterprise constraints and guiding teams through complex legacy-to-cloud transitions.

Skills

- Architecture & Design:
    - End-to-end solution architecture
    - Event-driven, Asynchronous and serverless architectures
    - Microservices and Modular Decompositions
    - API First Integration Architecture
    - Non-Functional Requirements (Scalability, Availability, Performance)
    - Architectural trade-off analysis
    - Cloud cost optimizations
- Cloud & Platform:
    - AWS - Lambda, API Gateway, EC2, EKS, S3, RDS, DynamoDB, IAM, Cognito, CloudWatch, CloudTrail.
    - Kubernetes – Deployments, HPA, RBAC, Network Policies, Ingress
    - Terraform – Modularization, Multi Environment Architecture, Remote State Backends, Version Control Systems, Terraform Cloud
- Domain: Telecom BSS – Billing, Charging, Invoicing, Payments, CRM.

Professional Experience

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

Official HR title: Senior Technical Business Analyst

- Own architecture for enterprise-scale invoicing digitization platform within a Telecom BSS ecosystem supporting millions of invoices per billing cycle.
- Design AWS-based event-driven architectures to handle bursty invoicing workloads and downstream integrations.
- Lead modernization initiatives from tightly coupled legacy systems toward cloud-native, loosely coupled services.
- Define service boundaries, integration patterns, and non-functional requirements.
- Act as architecture reviewer guiding teams on resiliency, cost awareness, and failure handling

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

Official HR title: Business Analyst

- Designed solution and integration architectures for Telecom CRM and BSS platforms used by national-scale telecom operators
- Defined system decomposition and integration strategies across distributed components
- Ensured delivery alignment with target architecture and long-term platform evolution
- Acted as a bridge between business and engineering stakeholders on architectural concerns

Solution Architect – Telecom BSS – Amdocs (Jan 2022 – Nov 2022)

Official HR title: Product Owner

- Defined platform-level architecture for Telecom BSS solutions.
- Led architecture discussions around scalability, integration complexity, and release constraints.
- Balanced near-term delivery needs with long-term architectural sustainability

Subject Matter Expert – Telecom BSS – Amdocs (Mar 2015 – Dec 2021)

Official HR title: Team Lead

- Served as technical and domain SME for large Telecom BSS implementations
- Advised teams on integration touchpoints, deployment considerations, and system constraints
- Supported production systems processing high-volume billing and charging data

Earlier Professional Experiences: (2011 – 2015)

- Quality Analyst – Netcracker, 2014-2015
- Test Engineer - Tech Mahindra, 2011 - 2013

Selected Architecture Work

- **Three Tier AWS 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

  Modular three-tier AWS setup with VPC, subnets, load balancing, and environment isolation
- **Setting Up Kubernetes From Scratch In Linux Based Machine using Multipass VMs**
  - [Github](https://github.com/abhinavcloud/Setting-Up-Kubernetes-From-scratch-in-Linux-Based-Machine-using-Multipass): https://github.com/abhinavcloud/Setting-Up-Kubernetes-From-scratch-in-Linux-Based-Machine-using-Multipass

  Automated Kubernetes cluster provisioning using kubeadm and Bash scripting

Architecture & Cloud Credentials

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

- AWS Solutions Architect – Associate
- AWS Developer – Associate
- AWS SysOps Administrator – Associate
- Hashicorp Terraform Associate
- Certified Kubernetes Administrator (CKA)
- Kubernetes and Cloud Native Associate (KCNA)
- AWS AI Practitioner