Result driven Senior Cloud Architect with over **18 years of IT experience**, including **10+ years in AWS Cloud Solutions 6 Years as Cloud Solution Architect, 6 Years as Java Application Architect with Spring Boot Microservices** and **9+ years in Technical Lead roles**. Specializing in **insurance and healthcare platforms** with domain expertise at **Cigna, United HealthCare, WellPoint, and Kaiser Permanente**. Skilled in **Java, Node.js, Python, Spring Boot, React, DevOps, and cloud-native microservices**. Adept at designing and developing robust APIs using **AWS Serverless Architecture**.

**Solution Architect: AWS-9 Years, Azure-3 Years, GCP-3 Years**

**Roles and Responsibilities:**

Architecting, Designing, Implementing, and supporting On-Prem and modern cloud systems

AWS Cloud Migration with 7 R Principles

Well-Architected Framework

Microservices Decomposition Patterns

Specialized for providing Cloud Migration Solutions

On Prem – Lift and Shift

On Prem – Lift and Shift with Cloud Native Solutions using AWS Lambda, Serverless and Cost Optimalization

Moving On Prem java to NodeJS, Python on AWS Serverless, Function as Service using other cloud Plat from.

Architected the Legacy application with Modernization, producing conceptual, logical, and physical design diagrams.

Providing Designs for Failover Architecture, Disaster Recover

9 Plus

**CERTIFICATIONS**

* AWS Certified Solutions Architect
* AWS Certified Cloud Practitioner

**Qualification**

* Masters in Computer Science, IETE, New Delhi Feb-2002

**TECHNICAL SKILLS**

* **Cloud:** AWS (Lambda, EC2, ECS, EKS, API Gateway, Glue, CloudWatch), Azure, GCP
* **Languages:**
* Java with Spring Boot
  + Java 8 Lambda Streams API,
  + Frameworks: Spring Boot 3.x Microservices,
  + ORM - Hibernate, JPA,
  + Security: Spring Security – Oauth2- Open ID, Okta,
  + Spring Cloud: Gateway -Zule-, Service Discovery- Eureka, Load Balancer-Ribbon, Spring Cloud Load Balancer, Resilience-Hystrix, Resilience4j,
  + Actuator – Monitoring, 11
* Python
  + Boto3 with AWS Lambda
  + AWS
    - AWS ELT Glue with PySpark
    - AWS ELT include CSV, JSON, Apache Parquet, Apache ORC, Avro, XML, Microsoft Excel, log files
    - S3 Data Lakes
  + Azure
    - Azure Data Factory, Azure Data Lake Storage
    - Azure Apps
  + Flask, Dango Web Framework, Fast API
  + Stream Processing with pySpark, Panda for Data manipulation, Chuck Processing with Pandas
* Node.js
  + JavaScript/ Typescript, Event Loop, Express, Fastify for building rest API
  + ES6- Array Functions, Arrays, Filters with map, reduce
* **Databases:** DynamoDB, RDS, MongoDB, Cassandra
* **DevOps & Tools:** GitLab CI/CD, Jenkins, Docker, Kubernetes, Terraform, Serverless Framework
* **Security:** Okta, OAuth, Spring Security, LDAP, Token-based Auth
* **Analytics:** Athena, Redshift, Glue, Quick Sight, Kinesis
* **ROSA, Kubernetes, EKS:** 9 Plus Years on Kubernetes using EKS, Docker, Docker Compose, Control Plane, AWS- ECR, EKS, ROSA
* AWS Redshift for data caching as Key Value DB
* AWS Bedrock customization for Automation and Production teams – bug fix data using Anthropic, Claude 2.0, 2.1

**DOMAINS**

* **Insurance & Healthcare:** Cigna, United HealthCare, WellPoint, Kaiser Permanente
* **Telecom:** Verizon, T-Mobile
* **Payments:** PayPal, MoneyGram, First Data
* **Education:** College Board, Pearson
* **Food & Retail:** Taco Bell
* **Connected Vehicles:** Sirius XM
* **Airlines:** Delta Airlines

**PROFESSIONAL EXPERIENCE**

**Sr. Cloud Architect | Delta Airlines | June 2024 – Present**

* 7 R Principles for Cloud Migration Practices
* Well Architect Framework with Azure and AWS
* Lift and Shift with Cloud Native Implementation
* Azure Apps Migration to AWS Cloud using Lift and Shift with Enhancement
* Replacing Azure Enterprise Service Bus with AWS Kafka
* Providing Design Include, Security, Fail-Over, Disaster Recover.
* Cloud Migration from Microsoft SQL Server to PostgreSQL
* Cloud Migration from MongoDB to AWS Document Database for high Transactions with in the document
* **Technologies:** AWS Lambda, Docker, Spring Boot, Python, Fast API, DynamoDB, SNS, SQS, Event Bridge,
* Modernizing Legacy Code of Spring MVC to Spring Boot with Java 17 with Lambdas and Steam API, Containerization, Deploying on EKS Platform
* Moving Azure Enterprise Service Business to AWS Kafka Messaging Platform Services.
* Migrated Azure-based APIs to AWS Lambda and Docker containers.
* Designed and developed highly scalable cloud-native applications.
* Built analytics pipelines using Kinesis, Glue, and Athena.
* Integrated AWS **Redshift** to enable scalable querying of flight operations and passenger analytics datasets for reporting.
* Developed generative AI use cases using AWS Bedrock using Anthropic Provider with Claude Instance. Improving, speeding unit testing and development iterations using generative AI using Amazon Q and enterprise AI Tools
* Building Serverless Lambda for prompt engineering team to feed the data for LLM Models; Bring agentive looping response to train the models

**Sr. Cloud Engineer | Cigna Healthcare (via Accenture) | Feb 2023 – May 2024**

* **Project:** MLive Virtual Health Management Platform
* AWS Wel Architect Framework
* 7 R Principles for Cloud Migration Practices
* **Migrating Legacy Application to AWS Cloud using Serverless, and EKS**
* **Migrating Application from MVC Application to Spring Boot, AWS Lambda**
* **Migrating Application with Express’s to Enterprise Applications using Fastify**  
  **Technologies: AWS Lambda, Spring Boot, Node.js, EKS, FHIR Standards**
* Developed patient-facing APIs in compliance with **FHIR standards**.
* Built serverless middleware for provider APIs using Node.js and AWS Lambda.
* Focused on **insurance domain modules**: Appointments, Insurance, Billing, Health Conditions, Emergency Services.
* Utilized Python for ETL, analytics, and health data pipelines.
* Part of Anxiety and Stress Team, where AI models and used to analyses the user behavior and format the response and send analytical data for enterprise reporting team based on user click steam analysis
* Used **Redshift** to build a centralized data warehouse for patient interaction, claim summaries, and EHR metrics with Athena dashboards.
* Connected **FHIR-compliant** datasets to Redshift for fast healthcare interoperability analytics and population health insights

**Sr. AWS Developer | Taco Bell | Dec 2022 – Feb 2023**

* 7 R Principles for Cloud Migration Practices
* AWS Wel Architect Framework
* conceptual, logical, and physical design diagrams.
* Design for Migrating OnPrem to AWS Cloud
* Implementing AWS Glue and Event Bridge
* **Project:** Employee Records Migration Middleware  
  **Technologies:** AWS Lambda, Spring Boot, Node.js, DynamoDB, Fastify, EKS
* Led the migration of HR data into AWS Cloud using Patch APIs.
* Integrated backend logic with external HR systems and identity providers.
* Built microservices for events like address/salary changes and promotions.
* Migrated HR analytics data from RDS and DynamoDB to **Redshift** to enable faster SQL-based reporting and salary trend visualizations.
* Developed GenAI chatbot prototype using **Bedrock** for internal employee queries related to benefits, payroll, and schedule FAQs.

**Sr. Cloud Engineer | T-Mobile | Jul 2022 – Dec 2022**

* 7 R Principles for Cloud Migration Practices
* **Multi Cloud Solution Provider with AWS, GCP, Azure**
* **Project:** Security Analytics with PacBot  
  **Technologies:** AWS, GCP, Azure, Terraform, Lambda, Glue, Python
* Ingested multi-cloud security asset data into T-Mobile’s PacBot.
* Built ETL processes using Glue and custom Python modules.
* Developed Lambda-based APIs to automate violation remediation.
* Integrated **AWS Redshift** for centralized logging and compliance analytics across multi-cloud (AWS, Azure, GCP) environments; reduced report generation latency by 60%.
* Developed **GenAI-based policy explanation module** using **AWS Bedrock (Anthropic Claude)** to auto-interpret and summarize security violations for audit teams.
* Built Glue-based ETL workflows streaming into **Redshift**, powering dashboards for asset inventory, patch status, and anomaly detection across clouds.

**AWS Cloud Developer | College Board | Mar 2021 – Jun 2022**

* **Technologies:** AWS Lambda, Spring Boot, Node.js, GraphQL, Athena, AppSync
* Created REST & GraphQL APIs using AWS AppSync.
* Built student services platform using microservices and S3-based reporting with Athena.
* Implemented data-intensive jobs using Glue.

**Sr. Cloud Engineer | Sirius XM | Sep 2019 – Mar 2021**

* **Project:** Connected Vehicles Cloud Stack  
  **Technologies:** AWS Lambda, Spring Boot, Docker, API Gateway, Kafka
* Migrated legacy Java apps into AWS Serverless architecture.
* Built connected car wireless provisioning APIs.
* Integrated with Jasper & Aries wireless networks.

**PRIOR EXPERIENCE (2006 – 2019)**

**Application Architect | Cognizant | Feb 2014 – Sep 2019**

* Clients: Verizon, UHC, Kaiser, PayPal, MoneyGram
* **Insurance Platforms:** Designed microservices for claims, benefits, billing and member management at UHC and Kaiser.
* **Payments:** Developed APIs for MoneyGram & PayPal including fraud detection and card integrations.
* **Telecom:** Led microservices development at Verizon for order line management.

**Lead Programmer | Cognizant | Oct 2006 – Feb 2014**

* Clients: WellPoint, Univision, Sony
* Migrated core insurance services to Java-based SOA architecture.
* Introduced reusable design patterns (Singleton, Service Locator).
* Implemented batch processing for claims and eligibility data.

**Developer Roles | SLK Software, ITC InfoTech, Indosoft | 1999 – 2006**

* Clients: AOL UK, M&T Bank, Fiat CRM, EDC USA
* Developed B2B portals and CRM solutions in Java and .NET.
* Migrated legacy systems to newer frameworks.

**PROJECT HIGHLIGHTS IN INSURANCE DOMAIN**

* **Cigna (2023–2024):** Developed modern API platform for MDLive insurance modules.
* **UHC (2016–2018):** Built scalable claims processing microservices using Spring Boot.
* **WellPoint (2006–2008):** Designed early XML data exchange system for provider-patient data.
* **Kaiser (2015):** Migrated Oracle-based eligibility & claims to Spring Boot microservices.

**EDUCATION**

* Master of Technology (M.Tech / MS) – IETE, New Delhi

**TOOLS & PRODUCTIVITY**

* IDEs: IntelliJ, Visual Studio Code
* API Tools: Postman, Swagger, GraphQL Playground
* CI/CD: GitLab, Jenkins, ArgoCD
* Monitoring: CloudWatch, Dynatrace, Kibana, Splunk
* Gen AI Tools: Codium, Copilot, ChatGPT (Productivity Boosters)

**AWS SERVICES MASTERED**

* **Compute:** Lambda, EC2, EKS, ECS
* **Storage:** S3, EFS
* **Database:** RDS, DynamoDB
* **Security:** IAM, Cognito, KMS, Secrets Manager
* **Networking:** VPC, Route 53, ELB, API Gateway
* **Analytics:** Glue, Athena, Redshift, Kinesis
* **DevOps:** CloudFormation, CDK, Serverless Framework
* **Monitoring:** CloudWatch, X-Ray