# Enterprise Cloud Solutions Architect (AWS)

Kalyan Chakravarthy

| C: 202-670-5359 | E: reachoutpm.kk@gmail.com

# Summary

Results-focused **Enterprise Solutions Architect** having 15+ years of experience and relevant master’s degree in software engineering with strength in Cloud services such as AWS S3 Data Lake, Lake Formation, AWS Glue, ECS, CloudFormation, Route53, Glacier, Athena, EC2, RedShift, RDS, SQS, SNS, Lambda, AWS Lake Formation, VPN, VPC. Enterprise Web Applications built on Java, Spring, Angular and Python. Proactive leader with strengths in communication and collaboration. Proficient in leveraging cloud infrastructure and security knowledge to deliver business objective on time and under budget. Adept at managing concurrent objectives to promote efficiency and influence positive outcomes. Extensive technical knowledge of large-scale, web-based content serving, distribution and streaming infrastructures, from application hosting, operating systems (Linux/Unix) and HTTP caching to DNS, load balancing.

# Skills

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| * Enterprise Architecture Design and Implementation * Amazon Cloud Platform Architecture, Amazon EMR * Amazon Web Services ECS, CloudFront, ALB * AWS S3 data lake, Redshift, Athena AWS Glue * AWS Machine learning, AWS Sage Maker * Monolithic to Spring Boot Microservices Migration * AWS Trusted Advisor, Cloud Trail, CloudWatch * Java, CI/CD, Unix, Linux, Spring Boot Microservices * Angular, Aurora DB, DynamoDB, SQS * Python, AWS Redshift, Glue, AWS EMR, * AWS Athena, EMR, RedShift, EC2 * AWS Data Lake, Route 53, VPC, VPN * Load Balancers, Firewalls, Security * Tomcat, WebSphere, JBOSS, NGINX * AWS EMR, RedShift, Athena | * AWS Lake Formation * AWS Database migration service * AWS Schema Conversion Tool * Web Application Architecture * Virtual Private Cloud Setup * AWS Xray, AWS App Flow * Applications Migration to Cloud * AWS Route 53, Kinesis, API Gateway * AWS Guard Duty, Inspector, WAF * Web Applications Architecture * RESTful, SOAP Web Services * AWS Code Commit, Code Build, Code Pipeline * Multi region disaster recovery * AWS Cloud Watch, Guard Duty, Control Tower |

# Certifications

* + - AWS Certified Solutions Architect Professional
    - AWS Certified Solutions Architect Associate
    - TOGAF 9 Certified Professional
    - Zachman Certified - Enterprise Architect Program

**Experience**

**SOLUTIONS ARCHITECT ENTERPRISE** | 10/2018 to Current

## BCBS , Washington DC

* Designed and architected securing infrastructure on AWS using IAM, KMS, Cognito, API Gateway, Cloud Trail, Cloud Watch, Config, Trusted Advisor, Security Groups, NACL, Athena, Redshift, ECS, ALB etc.
* Designed of customer's Cloud environments with a focus on AWS and demonstrated technical cloud architectural knowledge, playing vital role in the design of production, staging, QA and development Cloud Infrastructures running in 24x7 environments.
* Designed the Data Lake by using Amazon S3 to manage a persistent catalog of organizational datasets and DynamoDB to manage corresponding metadata. Integrated Amazon elastic search for robust search capabilities, Amazon Cognito for user authentication, AWS Glue for data transformation and Amazon Athena for analysis
* Created Software Architecture Document, High Level and low-level Design document, non-functional requirements for the project.
* Provided domain expertise in various decisions ranging from first cut feature analysis, providing heads-up on technical challenges with Executives, sharing inputs integrated plan for feature rollout and informing on the feature adoption approach.
* Collaborated with the application, data, and infrastructure architects on defining, designing and delivering cloud specific technical architectures, patterns, technical quality, risks and operations of cloud architecture solutions for cloud native applications and cloud migrated applications.
* Evaluated technologies, make recommendations on technical choices, and work cross-functionally to gain consensus on design.
* Evaluated and designed Data pipeline, Cataloging, Metadata management, Streaming data, Orchestration, Transactional data lake using HUDI.
* Architect, setup, and develop scalable Big Data solutions including AWS EMR, Spark, and Internet of Things applications.
* Improving efficiency and effectiveness of coding practices conducted for the mission-critical single page application maintaining code and design consistency across different team members.
* Performed reviews and assessments of team deliverables to ensure adherence to architecture designs and standards.
* Provides technical expertise in the diagnosis and resolution of a cloud-related issues, including the determination and provision of workaround solution or escalation to service owners.
* Investigate new technologies and stay abreast of industry developments and trends.
* Worked closely with Project Managers to understand code/configuration release scope and how to confirm release was successful.
* Designed custom Enterprise applications using the Java, Spring framework and REST services as part of our microservices architecture and new web front ends built in Angular.
* Drafted and provided estimates for the requirements and engaged with client architecture group.
* Mentor and trained project team members on the Solution details for a smoother execution and ensured quality deliverables.
* Designed infrastructure related cloud solutions using various AWS Services including EC2, VPC, S3, Glacier, EFS, AWS Kinesis, Lambda, Directory Services, Cloud Formation, Ops works, Code Pipeline, Code Build, Code Deploy, Elastic Beanstalk, RDS, Data Pipeline, DynamoDB, Redshift etc.
* Ensured a loosely coupled architecture through the use and management of APIs (e.g., REST, OData, AWS API management tools, etc.) as well as microservices.

**ENTERPRISE ARCHITECT** | 10/2016 to 10/2018

## Comcast – Edison, NJ

* Managed all aspects of implementation projects, including scope, timeline, in consultation with the Customer Success Manager. Analyzed current technologies used within the enterprise and determine ways to improve.
* Report directly to the Technical Director of North America, working together with the full team of Architects and Programmers to ensure success for all phone channel customers.
* Research solutions to complex issues, continuous improvement of IT service delivery and enhancing the user experience.
* Provided domain expertise in various decisions ranging from first cut feature analysis, providing heads-up on technical challenges with Executives, sharing inputs
* Provided recommendations about platform and technology adoption, including database servers, application servers, libraries, and frameworks
* Designed AWS lake formation with existing S3 buckets and de-siloing data across the enterprise, other data initiatives such as machine learning, start to drive greater business value.
* Frequently interact with internal customers of capabilities to gain insight and tailor capability roadmaps to meet the customers’ needs.
* Architected and built highly scalable, cloud-native applications on AWS cloud platform using core developer services such as (but not limited to) API Gateway, Lambda, SQS, DynamoDB and ECS.
* Collaborated with other Architects and Technical Leads to ensure consistency across teams and improve technology reuse.
* Defined high-level architecture, standard methodologies, and guidelines that balance short-term and long-term objectives in a practical manner.
* Identified, developed, and managed reference architecture and design patterns for digital applications
* Responsible for translating the requirements created by functional analysts into the architecture for that solution and describing it through the set of architecture and design documents.
* Guided different dev teams to ensure success in building and migrating applications, software and services following the principles of the AWS Well-Architected Framework.
* Propose the solution to clients, advocating for the decisions made (rationale) based on business requirements, technical limitations, and practicality/feasibility (cost or effort)
* Responsible for creating monitors, alarms, and notifications for EC2 hosts using Cloud Watch.
* Involved in the migration and implementation of multiple applications from on premise to cloud using AWS services like SMS, DBMS, CloudFormation, S3, Route53 Glacier, Athena, Redshift, EC2, RDS, SQS, SNS, Lambda, Kinesis, and VPC.
* Build servers using AWS and launching EC2, RDS, creating security groups, auto- scaling, load balancers (ELBs) in the defined virtual private connection.

**SOLUTIONS ARCHITECT** | 01/2015 to 09/2016

## Wells Fargo - Minneapolis, MN

* Defined and communicated complex technical and operational solutions and translate complex topics into simple business language to drive the value alignment.
* Collaborated and evangelized the right cloud solutions throughout the business creating a visionary direction and roadmap for Infrastructure-as-a-Service.
* Developed long-term strategy for historical data retention and archival plan for storage needs, defines data retention, backup, and recovery methods and plans taking direction from legal in process.
* Worked alongside the Delivery leads and provide status updates on architecture and design level approvals and blockers.
* Lead and review architectural discussions with various third-party products and Cloud providers
* Worked on defining proof of concepts for adopting new cloud native apps and hybrid apps to resolve critical technical issues which can address business and technical goals.
* Involved in designing multiple VPCs from scratch, creating private and public subnets, creating security groups and network access lists, configuring internet gateways, OpenVPN, creating AMI, understanding of user access management/role based access/multi factor authentication and API access, configuration of auto scaling and elastic load balancer for scaling services if a configured threshold has been exceeded, configuration of SNS to send notifications and Cloud Watch to collect logs and metrics.
* Architected systems built on IBM WebSphere, Java/J2EE, Spring Framework, MQ, Angular, Front End Technologies, Web Services, Microservices.
* Provide documentation to assist in further improvements, such as SOPs, Project Plans, Change Management, High level, and Detailed Design Documentation.
* Designed the overall Virtual Private Cloud VPC environment including server instance, storage instances, subnets, availability zones, etc.
* Provisioned load balancer, auto-scaling group and launch configuration for micro services using Ansible.
* Designed the AWS network architecture including VPN connectivity between regions and subnets.
* AWS – built VPCs from scratch, creating private and public sub-nets, creating security groups and network access lists, configuring internet gateways.
* Designed Cloud based high resiliency Microservices based business components using Spring Framework.
* OpenVPN, AMI images, and user access management/role-based.
* Solutions experience on Architecting and securing the Infrastructure on AWS using IAM, KMS, Cognito, API Gateway, Cloud Trail, Cloud Watch, Config, Trusted Advisor, Security Groups, NACL etc.

**TECHNICAL LEAD CONSULTANT** | 02/2014 to 12/2014

## AMFAM- Madison, WI

* Partnered with technology leaders of application development teams and other architects to evaluate and continuously improve development methodologies and tools.
* Responsible for launching Amazon EC2 Cloud Instances using Amazon Web Services (Linux) and Configuring launched instances with respect to specific applications and regions.
* Build servers using AWS, importing volumes, launching EC2, RDS, creating security groups, auto-scaling, load balancers (ELBs) in the defined virtual private connection.
* Responsible for creating monitors, alarms, and notifications for EC2 hosts using Cloud Watch.
* Involved in the migration and implementation of multiple applications from on premise to cloud using AWS services like SMS, DBMS, CloudFormation, S3, Route53 Glacier, EC2, RDS, SQS, SNS, Lambda, Kinesis, and VPC.
* Build servers using AWS and launching EC2, RDS, creating security groups, auto- scaling, load balancers (ELBs) in the defined virtual private connection.
* Build and configure a virtual data center in the Amazon Web Services cloud to support Enterprise Data Warehouse hosting including Virtual Private Cloud (VPC), Public and Private Subnets, Security Groups, Route Tables, Elastic Load Balancer.
* The configuration of Continuous Integration (CI) and Continuous Delivery (CD) using Code Pipeline and Code Deploy for automation.
* Work with the Vendor management group to provide content and guidance for the engagement of strategic IT partners and vendors.
* Monitor and identify performance trends and work with teams to improve processes and procedures.

**LEAD CONSULTANT** | 11/2013 to 02/2014

## Visa Inc - Denver, CO

* Designed and developed RESTful Web Services using Java8, Spring Framework and created Data Access Objects using Hibernate HQL along with native Queries to persist, retrieve the data from the Oracle database.
* Developed the web application using Java8, Spring MVC, Spring Boot, Hibernate, Web Services, HTML5, CSS3, JavaScript and Angular.
* Utilized Spring IOC for dependency injection and Spring AOP for cross cutting concerns like logging, security, and transaction management.
* Implemented new features and enhancements using Java 8 Streams, Parallel streams, Lambda Functions, Collectors, Predicates, Suppliers, Consumers, Date time library.
* Designed and migrated legacy monolithic applications to Micro Services architecture using Spring Boot, Spring MVC, Spring Cloud Config, and Cloud Foundry.
* Designed and developed Web Service client interfaces using Spring Restful framework and SOAP with Apache Axis framework along with Spring-Data and Spring-JPA.
* Created Test Suite to validate the payment management service, customer management service, and decline management service.
* Integrated Maven Soap Plugin to run Soap tests as a part of the build cycle.
* Implemented Model View Controller (MVC) architecture Using Spring MVC at the Web tier level to isolate each layer of the application to avoid the complexity of integration and ease of maintenance along with Validation Framework.

**LEAD CONSULTANT** | 01/2012 to 11/2013

## State Farm Insurance - Indianapolis, IN

* Analyzed technical and business requirements, including functional and non- functional requirements, to develop a systems solution.
* Coordinate with onsite and offshore teams and make sure that the deliverables are completed on time. Provide appropriate guidance and assistance to the offshore technical leads for all critical solutions.
* Designed, developed new web-based applications and modified existing web - based applications in languages such as Java, J2EE, java script, HTML, CSS, Spring, SOA, etc.
* Worked closely with business partners to understand business requirement s to design qualify technical solutions that align with business and IT strategies and comply with the organization's architectural standards.
* Developed proof of concepts using new technologies and worked with architects to develop recommendations.
* Developed both server-side and client-side validation using Java, Spring MVC, HTML form model attribute and JavaScript.
* Involved in performance tuning, configuring and redeploying application using Apache Tomcat.
* Used Angular JS architecture and RESTful web services for database interaction.
* Involved in the design and development of SFX tag libraries associated with JavaScript, CSS and images.
* Used Agile (SCRUM) methodology for the software development with pair programming.
* Designed and developed Web Service client interfaces using Apache Axis.

**SENIOR SOFTWARE ENGINEER** | 12/2008 to 02/2011

## Ericsson - Hyderabad, India

* Involved in the development of front-end dynamic screens using Java, Spring, JavaScript, HTML and CSS.
* Used HTML, JSP, Java scripts, Bootstrap framework to create web pages and defining CSS class to reuse and consistent for all the web pages.
* Servlets for Front end.
* To maintain loose coupling between layers published the business layer as services and injected the necessary dependent components using Spring IOC and published cross cutting concerns like Logging, User Interface exceptions, Transactions using Spring AOP.
* Integrated spring and hibernate together and worked on developing backend components and services using Hibernate and spring.
* Created HTML, CSS, and JSP pages for front-end, JavaScript for client-side validation.
* Develop high-quality, production ready and standards compliant web presentation code.
* Worked with the JAVA developers to ensure all HTML, CSS and JavaScript codes function properly with the JSP codes, while ensuring compliance with W3C content guidelines.
* Involved in business requirements gathering, analysis, design, coding, and testing the applications.
* Extensively used OOA, OOD, OOP Concepts, Exceptional Handling and Collections Framework.
* Configured and implemented application security and transactions using Spring Security and Spring AOP.

# Education and Training

## ITU, San Jose, USA| Master of Science

Software Engineering GPA: 3.8/4.0

## ANU, India| Bachelor of Technology

First Class: 85 percentiles (Top 2 percentile)