Rajesh Iyer

LinkedIn: www.linkedin.com/in/iyerajesh **GitHub:** www.github.com/iyerajesh **Email:** iyerajesh@gmail.com

Summary of Qualifications

- 26 years of experience and expertise in architecting, designing and delivering application solutions involving Microservices, Cloud Native and distributed Event driven architectures
- Strong expertise on AWS, Terraform and cloud technologies, Java/JEE and OSS technologies.
- Quick adaptability to new technologies and broad experience across multiple platforms—AWS, Kubernetes, Serverless, DevOps, Microservices, Domain-driven design, and Middleware/Mainframe enterprise architecture—are key strengths.
- Strong knowledge of financial services domain across consumer banking, wealth management, and investment banking.
- Highly technical, hands-on coding level architect and engineering leader.
- Passionate about building high performance teams, driving innovation and engineering excellence.
- Passionate about leading by example with a hands-on, close to the code approach.
- Proven leadership and managerial skills, can communicate cross-functionally and drive architecture and engineering efforts.
- Comfortable working with senior executives on strategy development.
- Always strive to deliver value to the business though continuous improvement.
- Designed and delivered large transformational programs for Global Enterprises.
- Experienced in the Agile (Scrum) and Waterfall SDLC methodologies.

Technical Skills:

- Core Java Technologies
- Spring framework Core, Spring Boot, Spring Cloud.
- PaaS platforms: Docker/Kubernetes, AWS, Redhat Openshift.
- Strong expertise with AWS technologies.
- Worked with PaaS/IaaS/SaaS environments, both on-prem and cloud
- API Gateways: Spring Cloud gateway, Netflix Zuul, Mulesoft API gateway.
- Message Brokers: Apache Kafka, ActiveMQ, WebSphere MQ, Rabbit MQ
- UI development frameworks: Angular 2
- Java Enterprise Edition (JEE) Technologies
- JAX-WS/RS Web Services, JAXB 2.x, EJB 3.0, JPA
- IBM SOA/JEE Platform: WAS 8.5, WebSphere ESB, WebSphere Datapower
- ESB Frameworks: IBM IIB, WPS, DataPower, Mule, WSO2
- BPM Frameworks: Activiti Enterprise BPM, WebSphere Process server, Pega Systems
- ETL: IBM DataStage
- Messaging standards: JSON, XML, ACORD, IBM IAA.
- IDE tools: IntelliJ Idea, Eclipse.
- Source Control tools: GIT, CVS, SVN
- CI/CD tools: Jenkins, GoCD, Chef.
- Security protocols: OAUTH/JWT, SSL-MA, WS-Security
- Databases RDMS and NoSQL: Postgres SQL, Cassandra, MongoDB.

PROFESSIONAL EXPERIENCE

JP MORGAN CHASE **March 2021 - Present**
Executive Director – Cloud Engineering Modernization Leader

- **Leading a multi-year engagement to evaluate and choose a workflow (Saga) orchestration platform for the firm. As part of this work, evaluated and did a POC with multiple frameworks, such as Temporal, Dapr, Axon framework, and Netflix conductor.**
- **Leading the core solution engineering team and co-leading the solutions architecture for the multi-year payments modernization program into AWS.**
- In this role, I am responsible for driving the technical vision, leading the platform teams to build and deliver on the payment's modernization roadmap, from launch to scale, including defining long term goals and strategies. The new platform is based on loosely coupled event driven microservices based on Domain Driven Design principles (DDD). GraphQL business capability based micro front ends. It uses Confluent Kafka as the platform event bus, and CQRS patterns, and is deployed in a resilient containerized AWS environment.
- **Past experiences:** Built data pipeline to move SOR data from the Mainframe to the Cloud, using CDC on IBM DB2, MQ, Kafka, and CockroachDB.

AMERICAN EXPRESS **January 2020 – March 2021**
Platform Engineering Manager/Lead Solutions Architect

- Leading the platform engineering, and the solutions architecture for the next generation digital acquisition platform. I am responsible for driving the technical vision, and the platform roadmap, from launch to scale, including defining long term goals and strategies. The new platform is based on loosely coupled event driven microservices, business capability based micro front ends. It uses Confluent Kafka as the platform event bus, domain driven design and CQRS principles, and deployed in a resilient containerized PaaS environment.

BARCLAYS **February 2017 – January 2020**
Vice President – Platform Engineering Manager /Solutions Architect

- Leading the platform development, and the solutions architecture for the next generation digital banking platform. The new architecture is based on building loosely coupled event driven micro services, modeled on cloud native and domain driven design principles, and deployed in a resilient containerized PaaS environment.
- Defined and led the AWS strategy and roadmap for the US Digital bank.
- Lead the architecture and the engineering effort for the Payments domain microservices and APIs.
- Led the engineering effort to build a platform to deliver machine learning models to Production for detecting credit card fraud.
- The platform allows data scientists to rapidly experiment, build and deploy ML models in shadow mode, that can perform real-time decisioning using machine learning.
- Led the design and the engineering of the DevOps pipelines for building and rapid deployment of models.

UNUM INSURANCE GROUP **January 2016 – February 2017**
Senior Enterprise Architect

Working as a strategy and transformation consultant for the Global Enterprise architecture and Innovation group.

- Leading and evangelizing the Microservices and API strategy and direction for the organization.
- Defining API guidelines, architecture policies and thought leadership on how and where to build APIs and Microservices.
- Working on a IPaaS strategy and approach to move their entire integration platform to the AWS cloud, using the Mule as the underlying integration platform.
- Built POCs to evangelize the value of a Microservices based container architecture with Spring Boot and Docker.
- Show cased the value of a lighter-weight application development stack using technologies such Angular 2, Spring Boot, Mule ESB, MongoDB.
- Worked on a straight through process (STP) use case to submit leave and claim data to the Workday SaaS platform, using a lightweight stack.
    - Show cased the value and agility of using the connectors within the Mule platform to talk to the Workday SaaS APIs.
    - Used technologies such as Spring Boot, Rabbit MQ, MongoDB, and Tomcat embedded runtime to show case an asynchronous microservices based architecture solution.
- Show cased the entire API documentation process using the RAML 1.0 standard, and the Mule API gateway for API registration.
- Defined the Test-Driven Development (TDD) and Continuous Integration/Delivery (CI/CD) best practices for how to do application development and delivery.
- Show cased the entire DevOps process and built out the entire build pipeline using tools, such as Maven, Gradle, GIT, Jenkins, Artifactory and SonarCube.
- Built a data strategy and a generic entity framework to expose distributed and Mainframe (DB2/IMS/VSAM) database entities as OData compliant microservices.

BANK OF NEW YORK MELLON **May 2015 – December 2015**
Principal Architect

<u>Client Onboarding</u>

The Global Client Onboarding application intends to standardize the client onboarding and account opening process for the bank across multiple business lines into a single consolidated platform and portal solution. The platform intends to build a common global workflow, integration solutions, and API services to replace all of the existing user defined technologies (UDTs) and integrate with all of the existing client master and account master legacy systems that service the account opening process today.

- Leading the architecture and integration effort to build a solution that aims to unify the client setup and the account setup process across the world using a common Business Process definition.
- Defined Architecture policies for how/when to use the ESB, BPM, API services, MQ etc.
- Accountable for the architecture, design and the delivery of all BPM and the REST API integration solutions.
- Defined the Test-Driven Development (TDD) and Continuous Integration/Delivery (CI/CD) best practices for the team to follow.
- Built OAUTH/JWT API security patterns using the Spring security framework for the development team to follow as a template.

AMERICAN INTERNATIONAL GROUP **April 2008 – May 2015**
Head of Application Integration

AIG OneClaim

The OneClaim application is a global application that aims to standardize the Claim Intake, FNOL and claim adjudication processes globally. The purpose of the AIG One Claim architecture is to provide the base architecture and infrastructure components to facilitate a common philosophy and infrastructure for processing claims in a consistent manner across the globe.

- Leading the global architecture and integration effort to build a solution that aims to unify the claim adjudication and the setup processes across the world using a common Business Process definition. The solution also provides for a highly cohesive infrastructure that allows for legacy systems to participate in a Service Oriented manner.
- Lead a team of 40+ resources globally including employees and consultants.
- Accountable for the architecture and the delivery of all ESB/BPM/ETL/SOA integration's and shared services implementations.
- Successfully delivered the ESB/BPM strategy, which consolidates all of the ESB/BPM/SOA applications across the enterprise into a common platform.

STANDARD AND POOR'S **July 2006 – April 2008**
Senior Architect
Worked as an Enterprise Architect in the S&P Architecture group.

AIG – GLOBAL ENTITY MANAGEMENT SOLUTION **Dec 2005 – July 2006**
Senior Architect/Tech Lead

CONSULTING ENGAGEMENTS WITH VARIOUS COMPANIES **Jan 1999 – Dec 2005**
Senior Developer/Architect/Tech Lead

Education

Executive Masters (MS) in Technology Management
Columbia University in the City of New York

Bachelor of Engineering, in Computer Science
(GPA – Honors/Distinction)
Pune University, India