



## SUMMARY

- Seasoned cloud native engineering leader with focus on both public as well as private cloud infrastructures.
- Principal Hands-On lead Engineer as well as cloud solutions Architect with 15+ years of experience in software industry.
- Well versed in doing 50% development and 50% solution Architect roles.
- Brings about 10 years of programming background in Java technology stack now focused on cloud native based modernization both platform & applications.
- Primarily focused on AWS, GCP cloud platforms, Microservices, Container Orchestration platforms such as Mesos/Marathon, Elastic Container Services and Docker Swarm, GCP cloud solutions, DevOps, and continuous delivery.
- Architected solutions to migrate the legacy IT infrastructure to AWS public cloud leveraging microservices paradigm.
- Demonstrated experience in administering and deploying applications consuming in-memory data grid specifically Pivotal GemFire & Hazelcast backed with Hadoop data sources.
- Strong experience in Cloud Native API development using Java, Spring backed with Big data sources - Hadoop, NOSQL eco systems.
- Lead and coach organizational transformation towards Agile, BDD/ATDD/TDD, CI/CD/CT.
- Experience in deploying microservices and its dependent systems like Kafka messaging systems using Docker containers to cloud platform.
- Experience in cloud architecture, systems design, systems integration, and application mapping.
- Experience designing and implementing complex, HA multi-tier, end-to-end solutions using a wide variety of private and public cloud offerings, including AWS EC2, S3, ELB, RDS, Route 53, IAM, Cloud Front and Auto Scaling.
- Experienced in developing, migrating & architecting SOA based SOAP, REST services to Spring Boot micro services architecture and deploying to Pivotal cloud infrastructure.
- Expertise in replacing legacy infrastructure with open-source APIs like Mule & RabbitMQ messaging system.
- Has experience of working on multiple big data POCs to evaluate different architectures, tools, and vendor products.
- Solid communicator with exceptional team-building skills.
- Strong problem-solver who can design solutions and assist developer Experienced in behavior driven development approach using SCRUM framework under Agile Methodology.



- **Good knowledge and experience working with ESB specifically Mule ESB, capable of designing interfaces with Mule to complex systems.**
- **Leveraged jprofiler to remove legacy, modern java application performance bottlenecks.**

## **PROFESSIONAL EXPERIENCE**

### **Wipro Full Stride Cloud Services (Cisco, Union Bank) Apr 2019 - Now Role: Sr. Cloud Native Lead Developer/Architect**

- Strong expertise in advising customers on the journey from cloud ready to cloud modernization path.
- Modernizing publishing engine of software.cisco.com to AWS native leveraging AWS DataSync, ClamAV, Multi region CloudFront technology stack.
- Employ cloud native design patterns and govern various modernizations of legacy monolith to microservices leveraging AWS Native services.
- Designed & Implemented API's leveraging serverless (AWS Lambda) technology stack.
- Worked on creating an end-to-end flow of reading content of an email in AWS, using SQS, SNS, Lambda and step function.
- Responsible for creating reusable Terraform modules to be used for cloud infrastructure enablement across various environments.
- Creating deployment leveraging AWS codePipeline.
- Designed and managed highly available and scalable DynamoDB Architecture, with optimum hash keys and multiple global indexes.
- Design an automated web application which will get data from third party API's and updates the application on a timely basis.
- Helped in shifting the application from traditional SQL database to NoSQL Amazon-DynamoDB
- Design of Cloud architectures to migrate or develop new PaaS, IaaS, or hybrid solutions utilizing Microsoft Azure or Amazon Web Services (AWS).
- Design and Implement automation strategies with ARM & Terraform template driven rules for AWS, Azure infrastructure via terraform and Jenkins - software and services configuration via chef cookbooks.
- Expertise in building Declarative Pipelines in Jenkins, using Jenkins for Java microservice based applications.
- Building/Deploy Docker containers to be managed by Kubernetes platforms in AWS, Azure.



- Create and deploy custom managed IAM service roles and resource-based policies for several AWS Cloud
- Design and implement setting up clusters using Kubernetes using pods, replication controllers, deployments, labels, health checks and ingress strategies by writing YAML files.
- Implement and Usage of AWS Services, IAM, Elastic Beanstalk, S3 Bucket, Athena Queries, Cloud Front, Lambda functions in multi-vendor environments.
- Exclusively used AWS S3 bucket APIs for Monitoring and Internal DevOps Operations.
- Solution across multiple AWS Accounts using AWS Cloud Formation and Azure Pipelines.
- Setting up new environmental sources using Terraform modules and scripts.

---

**CITI- CTO Platform Shared Services**  
**Role: Sr consulting Cloud Native Architect**  
**Employer: Wipro Digital**

**Nov2018-Mar2019**

- As a seasoned consulting Architect & hands on Engineer worked closely on Pivotal containerization using PKS (Kubernetes service) for **CITI Alerts Applications**- web application, services & Batch modules.
- Migrated legacy WebSphere applications to docker containers and written Jython scripts to automate application resource creation on docker images.
- Responsible for leading agile team providing guidance, best practices on dockerization of the modules. Responsible for prioritization of user stories and demoing the working software to the stake holders and upper management and maintaining a healthy backlog.
- Mentoring junior team members on agile best practices, cloud native architectures.
- Partnered with PIVOTAL consultants on PKS effort.
- Influence the Devops team to build the CI & Deployment Jenkins pipelines and resolved the bottle necks and appraised what the Continuous Delivery pipeline should be.
- Currently working on migrating the CITI GEO LOCATION applications modules- UI, API Services & Batch jobs to **AWS Native services**.
- Partnering with the CITI leadership team in designing the AWS target state architecture for the Pilot application migration to Amazon Web Services – LOCATION FINDER.

---

**ECE Program – BigData Analytics Group**  
**Role: Hands on Lead Engineer / Cloud Native Architect**

**Apr2017-Oct2018**



**Employer: Synchrony Bank (formerly GE Capital Retail Bank)**

- Lead an agile scrum team to design, implement, and test the enterprise API services software that powers the client applications.
- Design and implement the next generation credit innovation strategy. Implement a microservices based solution for the credit decisioning making process for multiple retail clients of synchrony.
- Created and have driven the detailed planning and scheduled activities many software projects at a time.
- Cloud Native API development and deploy to Pivotal cloud foundry platform and enable autoscaling of the services.
- Demonstrated CI/CD pipeline using Jenkins for the API services.
- Build cloud native APIs backed with in-memory data grid tool - Pivotal Gemfire, HBase with data streamed from Hadoop (Bigdata) eco system.
- Ensure the code quality metrics are met.
- Demonstrated knowledge of administering and building REST API's Pivotal Gemfire cache tool.
- Experience in working in real-time data ingestion.
- Experienced in sourcing and processing structured, semi-structured and unstructured data.
- Experience in working with No-Sql data stores such as Hbase, Cassandra.
- Experience in Data Cleansing/Transformation, Performance tuning.
- Experience in leveraging Apache Atlas for data governance.
- Built POC's using Kafka, Storm for building data pipelines and streaming.

---

**Enterprise Technology Services Group**

**Nov2016-Apr2017**

**Role: Pivotal Cloud Services Architect/ Sr Tech Manager**

**Client: Express Scripts Inc, MO**

- Responsible for architecting, developing, and migrating existing mule-based services infrastructure to SpringBoot based microservices architecture and deploying to Pivotal Cloud foundry infrastructure through Jenkins build pipeline.
  - Represented enterprise services organization in cross-functional R&D Core Teams tasked with delivering agile projects.
  - Have done people-management role for the team of software engineers, including staffing, performance management, coaching, task assignment, training, and development.
  - Driven all aspects of our agile development process, from sprint planning to daily scrum meetings and sprint demos.
  - Ensured the team's compliance with relevant development and functional processes.
-



- Promoted and drove innovation in technologies, processes, and tools for cutting-edge development.

**LifeQuote UI /Payment Gateway/Several StateFarm projects Nov2012-Oct2016**

**Role: - Sr Managing Architect**

**Client: - StateFarm Insurance, Chicago.**

**Involved in multiple projects from inception, design to code completion and doing knowledge transfer to the respective technical resources of the Line of Business sponsoring the projects for the auto insurance major based in Bloomington, IL.**

- My primary responsibilities include, but are not limited to, technical direction on building UI applications and SOA based enterprise software components using WebSphere/Mule SOA Suite, overseeing agile software development process (PO and SM), working with various line of business (LOB), program managers and product owners on requirement/design/integration of software components, addressing customer issues/escalations.
- Hands-on development of several UI/service components as part of the work packages built for the customers in **continuous integration/delivery methodologies** using Behavioral driven development (serenity, jBehave, cucumber, selenium API) as part of Jenkins Pipeline configuration and delivered features to production/pre-prod on a bi- weekly sprint cycle.
- Developed Mule asynchronous services flows using XSLT transformation invoking multiple services using RabbitMQ for queuing and MUNIT testing to test the flows.
- Developed UI screens as per the wireframes from the UI Experience team using Spring MVC with jQuery, bootstrap, angular js java scripting frameworks.
- Developed backend services using Apache CXF, Axis2, JAX-WS based SOAP services and exposed them using MULE ESB.
- Implement JSON SOAP & REST interfaces as endpoints in Mule esb.
- Considerable knowledge in mule service orchestration and flow design. Integrated Mule flows with multiple adapters/components available in mule studio.
- Migrated high-volume OLTP transactions from Oracle to Cassandra to reduce Oracle licensing footprint.
- Created architecture stack blueprint for data access with noSQL; used as the technical basis for new Cassandra projects.
- Responsible for implementing TP GemFire distributed L2 cache for State Farm new architectural stack for high availability. The data for cache and session were synchronized in real time among multiple server nodes.
- Developed REST based services consumed by the UI screens in JSON data format.
- Wrote Hadoop tasks in Java which interfaced with Cassandra to populate a sharded Solr cluster.



- Led the effort of design, architecture, development, and delivery of valuable and business critical web service components to variety of LOB such as Mobile, Banking, Enterprise Services, Loan Origination, Scoring/Decisioning.
- As a developer role in one of the projects I was involved with full stack node.js development.
- Oversaw requirements-gathering and proposal, which won the follow-on work for company.
- Lead teams of 4-10 through SDLC iterations, mentored fellow developers on the various aspects of application architecture and development.
- Delivered excellent customer service and gained respect of client management and end- users.
- Developed backend services using Apache CXF, Axis2, JAX-WS based SOAP services and exposed them using MULE ESB and IBM Xi50 DataPower.
- Expert in configuring WSRR for contract binding and version routing.
- Considerable knowledge in mule service, RabbitMQ for asynchronous orchestration and flow design. Integrated Mule flows with multiple adapters/components available in mule studio and used XSLT for transformation for underlying service invocations.
- Insight knowledge on developing a webservice integrating with IBM WODM JRules application.
- Developed REST based services consumed by the UI screens in JSON data format.
- Implemented database interactions using Hibernate, pureQuery and ibatis API's.
- Currently working on design & implementation of large-scale data migration from one organization to another using multiple REST services, IBM MQ messaging broker systems.
- Collaborated with and guided team through development and testing.

**Agent Gateway Marketing (AGM) CRM Application, AGCM** **Nov-2008-Feb2010**  
**& Apr 2011-Nov2012.**

**Role: - Technical Lead Managing Consultant**  
**Client:-Nationwide Insurance; Columbus, Ohio**

The Agent Gateway Marketing CRM application focuses on the business goals for growth and retention. It is an integral tool of the sales and service applications to support the overall insurance marketing process for the exclusive and direct sales agents. This application is the focal point for tracking and managing customer relationships across the insurance value chain from the inception of introduction of a prospect to customer retention interactions. It is the central component for managing the client relationship life cycle.

**Roles & Responsibilities:**

- Extensive UI/web development using Extjs & JQuery java scripting frameworks.
- Currently doing both Design & Development of the J2ee Applications both UI as well as the backend Database design changes.

Ajay S Balasankula  
[ajaysagarraob@gmail.com](mailto:ajaysagarraob@gmail.com)  
P: 201 658 6017



- Worked on the analysis, design and development of business rules which will run within IBMs WODM (Websphere operational Design Manager).
- 4.Designed and implemented the AGM web services to be consumed by external teams (Fusion/Zoom) using Apache Axis2 1.4.1 with JIBX data binding in compliance with the IAA messaging datamodel.
- Led design and development of service-oriented architecture, centered on Mule ESB and SonicMQ for next generation e-commerce platform.

### **EDUCATION/CERTIFICATIONS**

Bachelor of Engineering in Computer Science from Osmania University, India (GPA 9/10) – APR 2004