# Ramkumar K Manakal

**Phoenix, Arizona**

# Summary:

* **Over 20 years’** experience in **Solution Architect, DW Solution Architect** and **Technical Architect Lead Technical Designer and Developer** for major **US Banks**, **HealthCare** companies, HealthCare department of health Arizona State. **Property and Casualty** Insurance and **Pharmaceutical** Industries.
* Possessed outstanding technical knowledge and expertise in enterprise data warehousing, Migration Projects and business intelligence concepts, design principles and software architecture.
* Analytical, highly adaptable professional with extensive experience developing, deploying, and evaluating systems aimed at improving quality and efficiency.
* Skilled in aligning end-user needs with long-term resolutions to complex IT challenges. Track record of success.
* Skilled troubleshooter continually focused on identifying, isolating, and resolving technical issues.
* Strong knowledge and comfort with **Cloud** like (**AWS, Cloud Foundry, OpenShift** etc.) environments along with **S3, EC2** etc.
* Strong knowledge and comfort within Microsoft-based server environments, along with all peripheral processes.
* Strong knowledge and comfort within **LINUX/UNIX**-based server environments, along with all peripheral processes and in the cloud domain.
* Proficient in Performance Optimization of reports and **OLAP** Cubes.
* Working Experience with various Databases like **MS-SQL Server, Oracle, Teradata, MySQL**.
* Working Experience with various **NoSQL Databases** like **HBASE, Couch base DB, Mango DB, Couch DB, MAPR DB** etc.
* Working Experience with Hive Database, Redshift Database on the warehouse environment.
* Data modeled on MDM concepts, Consumer product group, Social Media and TV ratings using snowflake, star schema. Converted from redshift to Snowflake Database environment.
* Working Experience with various Data warehouses like **REDIS, Data Mart, Operational Data Store, DSS supporting System** and **GREENPLUM**.
* Accomplished communicator skilled in building and strengthening relationships across functions to drive cohesive, strategic operations.
* Liaised between internal and external team members and customers
* Developed timing and mitigation plans to meet financial, scheduling, and performance requirements.
* Created and maintained clear, concise project plans and developed strategies to meet deadlines.
* Worked in Data Model rationalization, standardization, and consolidation Process along with the IT Leadership team in the IT Optimization journey & EA Road Map exercise.
* Acquired rich transnational experience in providing strategic IT Solutions and Services to global customers to leverage technology in creating revenue opportunities.
* Worked in Identifying, Evaluating, Defining & Building KPI’s (Key Performance Index) for BI Reporting / Dashboards.
* Established credibility in managing end-to-end large business-critical projects in global delivery model to global customers with distributed multicultural, multi-vendor teams from across the globe.
* Extensive experience with Physical, Logical, Dimensional & Snowflake Data Models.
* Good working knowledge in **Project Management** using **Agile, Scaled Agile & Waterfall**

Methodologies.

* **Informatica /Talend** performed develop, architect, and Extract, Transform and Load (ETL) Processes.
* Excellent Communication Skills, delivery oriented and a self-starter
* Specialized in **ETL tool** – **KABANA, Tableau** and **Pentaho** understanding of BI Reporting Tools.

# Technical Skills:

* **Cloud:** Google, AWS, Cloud Foundry private cloud, Open shift private cloud, containers KUBERNITES (EKS/PKS), Docker (on LINUX, UNIX, Windows), AZURE.
* **Front End:** Angular (2.0/4.0), React JS, Node JS, Spring MVC, VERTX
* **API:** RESTFUL, REST, JAXRS, JAX-RS, JAX-WS, VERTX, SOAP
* **MIGRATION TOOLS:** TALEND, Pentaho, IBM DATASTAGE, SSIS
* **BITOOLS:** KABANA, Tableau, Pentaho
* **Search Tool:** ELK and SLOR
* **Project Status tools:** Jira, Rally
* **Security:** LDAP, Kerberos, SSL, SSH
* **Micro services:** API gateway such as Mule soft, APIGEE, SOA, with 12 factor application architecture.
* GOLANG: Problem solving to integrate the applications and processes concurrently.
* J2EE Platforms, Spring Technologies, Spring boot, Spring MVC, Hibernate, Web Logic, Aqua Logic, JBoss, Web Sphere, CRC, UML, Rational Rose, Together Control Center, Visio Data Model and Design Platforms, Horton Works (Ambari), Cloudera Manager (CM)
* Shell Scripting (C, Korn & bash), CITRIX Server, Python, Perl and php. AngularJS (1.6, 2.0), REACTJS, NODEJS, Oracle (8i/9i/10g/11g,12c), DB2/UDB (10/11), MS-SQL Server (2016,2018)
* **Build:** Maven, GRADEL, ANTLR (UNIX/LINUX/Windows)
* **CI/CD:** Jenkins (UNIX/LINUX/Windows), NEXUS repository
* **Containerized:** Kubernetes (K8s), Docker
* **Version Control:** Git, GITHUB, BITBUCKET, GITLAB, SVN, CVS, HARVEST (UNIX/LINUX/Windows), Team Foundation
* **Streams First Technology:** Confluent Kafka**,** Apache Kafka, Apache Kafka Admin, Apache FLINK, SPLINK stream, Kafka Stream, Spark stream.
* **BIG DATA:** Hadoop Technologies, HIVE, Apache Spark, SQOOP, OOZIE, HBASE, SCALA, PYTHON, JAVA 1.8, RXJAVA
* **Relational Databases:** ORACLE, MYSQLDB, SQL SERVER DB, Teradata, DB2, UDB, Postgres
* **NoSQL DB:** MAPR DB, Cassandra DB, Couch Base DB, MongoDB, REDIS Cache DB, AWS MEMCACHE, MEMSQL, DynamoDB, Aurora DB
* **Data warehouse:** Star Schema, Snowflake Schema, Redshift/Snowflake Data warehouse (All Database, Column base Database or key value pair, Row base).

# Education:

* **MCA, MS-Computer Applications, Madurai Kamaraj University, India, 1992**

# BS-Mathematics, University of Madras, India, 1988

**Professional Experience:**

# Wells Fargo, North Carolina – Diversant LLC Jan 2021

**– Present**

# Sr. Solution Architect, Designer and Sr. Developer

Project built Architecture detail design based on the base architecture build.

Proposed and implemented the detail design framework and with secured “Artifactory libraries” (tool).

Multiple steaming data passed with multiple topics in KAFKA having multiple partitions with approx. 100 partitions minimum on the consuming and producing data from online transactions. Established the securely connect with SAAS (third party application) and private AWS cloud with

Route 53 establishment.

Pipeline scripts written to ingest the data to Kafka stream and loaded into “Ktable” for providing transactional KPI on the Dashboard visualization.

Developed multiple microservices API using SCALA/JAVA/SPRING BOOT/PYTHON/GOLANG languages. Deployed using GITLAB CI/CD process with “Aritifactory libraries” (tool) and CI/CD pipelines.

The Streamed Data, API Micro Service data, third party vendor data, Cloud to cloud data etc. are collected on S3 and passed to staging data on HIV /EMR data lake for Visualization and Analytics.

The above same data are used as input for ETL process loads/with pipeline scripts to Azure private cloud on data mart for the daily/monthly/weekly/streaming data.

Visualization Tableau utilizes the DataMart for dashboard presentation.

Process to load AZURE cloud using DATABRICKS and ETL process to load into snowflake.

API microservice data as event and securely connected, data encrypted/decrypted and capture the event on the Serverless component data put as staging transaction as cloud region wise.

Developing and implementing real time observability solutions that provide visibility into system health.

# USAA, Antonio Texas -Apex July 2020

**– Jan 2021**

# Sr. Solution Architect, Designer and Sr. Developer

Project completed on creating a streaming service/Producer/Consumer model for data streaming using Kafka APIs. The USAA KAFKA steams based on topic to security, down steam data lake etc.

Multiple steaming data passed with multiple topics in KAFKA having multiple partitions with 100 partitions minimum on the consuming and producing data from online transactions.

Security team can disable the user profile based on the period the employee goes on vacation for more than a week.

Recovery of assets such as laptops or other equipment that belongs to USAA based on the termination of contract or employment.

Developed multiple microservices API using SCALA/JAVA/SPRING/SPRING BOOT/

/PYTHON/GOLANG languages. Deployed using GITLAB CI/CD process with Aritifactory libraries and CI/CD pipelines

Created ETL architecture for the external data feed. This is stored in HIVE to load into Redshift, and then later converted to Snowflake. ETL pipeline scripts and jobs have also been created on cloud.

Process to load AZURE cloud using DATABRICKS and ETL process to load into snowflake.

API data as event and capture the event on the Serverless component data put as staging transaction as cloud region wise.

# WWE, Stamford CT – Cognizant Technologies Solutions Aug 2019– July 2020

**Sr. Technical Developer, Solution Architect, Sr. Manager**

Project completed on creating a streaming service for WWE programs like Netflix, Hulu, and Amazon Prime Video as the Senior Manager, utilizing Kafka data streaming. The programs include WWE Smack down, RAW, Total Divas, Total Bellas, etc. Technical functions have been installed using the following: edge node cloud computing on AWS, data architecture and modeling

on Redshift and Snowflake, and data feeds on external sources from S3 Bucket, Lambda functions, and EC2 environments using JAVA/PYTHON/GOLANG languages.

Data modeled on MDM concepts, which include consumer product groups and social media and TV ratings using Snowflake and Star Schema. The model is converted from Redshift to a Snowflake database environment.

Created a search system using supervised data using keys and queries from Cassandra to retrieve customers/video/media images for UI which uses Node.js/React.js/Redux and Network

2.0 systems. Developed elastic search patterns with API using SCALA/JAVA/SPRING/SPRING BOOT/REACT/REDUX /PYTHON/GOLANG languages.

Machine learning algorithms were applied on the unstructured data and converted to the dimension-based data model. The data from these platforms are retrieved from Kafka streams to create the model. User Interface (UI) based applications used with performance improvements along with MEMCACHE API for data base memory cache fast updates are used before calling the actual database updates

Created ETL architecture for the external data feed. This is stored in HIVE to load into Redshift, and then later converted to Snowflake. ETL pipeline scripts and jobs have also been created on cloud.

Process to load AZURE cloud using DATABRICKS and ETL process to load into snowflake.

Apache FLINK used to two sets of architectural problem of maintaining the microservices and second is data pipeline process monitoring and streaming data from Kafka to FLINK to data lake.

Followed SDLC process and created a new process on SDLC setting up the development, QA and UAT environment for new project setups.

Creating GITLAB setup and created a new pipeline script to avoid manual push to the development master.

Imported and exported large sets of data into HDFS and vice-versa on AWS by creating automated scripts and deployment processes made easy using JAVA/PYTHON/GOLANG languages.

Worked on HIVE partition and Hadoop Big Data technologies on AWS and created multiple tables and needs Universal data lake history data from the various feeds.

Worked on HBASE regions nodes definition using key defined with columns and maximum split size defined while zoning the region.

Worked on AWS to setup between EMR Spark Cluster and S3 Storage.

Created processes that pull data from the API and developed APIs as aggregate API and finally the metadata are stored in S3 bucket and the rest the HIVE loads process pipeline scripts created to load into HIVE schema.

Data mart setup done on the GREENBLUM and facilitate to the **Tableau**

JAVA/SCALA/JAVA Spring/Java Spring Boot/REACT/REDUX/ PYTHON/GOLANG languages is used to integrate the multiple applications and the applications can initiate the processes concurrently. User Interface (UI) based applications used with performance improvements along with MEMCACHE API for data base memory cache fast updates are used before calling API for the actual database updates.

Kafka streamed online application transaction (Sales Force/ Custom built application) instream data. Mongo DB transaction data google cloud-based files, regular csv files, big transferred files to AWS S3 bucket and API stream data are pushed to Apache FLINK cluster using java spring boot application, python and GOLANG source process scripts.

Hadoop distribution is Cloudera environment with Elastic Search/SLOR Search APIs to perform better search on the content management/customer/fan search.

Leading and mentoring my development team of on sight 10 and 15 off sight (offshore team) and take the team to proper road path by mentoring proper guidance and mentoring them properly and able to successfully complete the project in time and within the budget.

Batch event-based data stagged in AWS aurora and push the data into data lake and dimension modeled in Redshift and Snowflake.

# AIG – Farmington CT – Cognizant Technologies Services Feb 2019 – July 2019

**Sr. Technical Developer, Solution Architect, Sr Manager**

* Worked as a Solution Architect/Senior Manager utilizing Kafka, Postgres Rabbit mq, Micro services architecture and Pivotal Cloud Foundry and AWS, working on technologies such as APIGEE, Rabbit MQ and Splunk. User Interface (UI) based applications used with performance improvements along with MEMCACHE API for fast updates on MEMCACHE are used before calling the actual database updates.
* Search on supervised data using keys and queries from Casandra for retrieval for UI such as JAVA/SCALA/JAVA Spring/Java Spring Boot/REACT/REDUX/ PYTHON/GOLANG/NODE.JS and PEGA claims systems. Used some of the Lucene search patterns on Elastic search patterns. The Casandra development process using Java technologies and maintains the code on the GIT and GITHUB.
* Leveraging the various branches codes and mastering the process. Resolving the conflicts are automated and create a framework for automated testing on the deployed codes and make sure it passes the tests before mastering the code.
* Talend tools were used to extract from various policy admin systems to update status of policy, from policy admin systems and update the Casandra database.
* Creating GITLAB setup and created a new pipeline script to avoid manual push to the development master.
* Imported and exported large sets of data into HDFS and vice-versa on AWS by creating automated scripts and deployment processes made easy.
* Worked on HIVE partition and Hadoop Big Data technologies on AWS and created multiple tables and needs Universal data lake history data from the various feeds.
* Worked on AWS to setup between EMR Spark Cluster and S3 Storage.
* Created processes that pull data from the API and developed APIs as aggregate API and finally the metadata are stored in S3 bucket and the rest the HIVE loads process pipeline scripts created to load into HIVE schema.
* Data mart setup done on the GREENPLUM and facilitated to the Tableau**.**
* Each API was written on to POSTGRES tables of SAGAs for the failure tracking mechanism for each event the API that event was not posted to various systems e.g., Rabbit MQ queues or failover mechanism on PCF cloud.
* APIs and proxies are deployed platforms as services using Jenkins’s pipeline scripts. I have deployed to various environment and did the setup on GITHUB and deployment done our separate space on the cloud on PCF. All the logs are tracked and traced using SPLUNK scripts and streamed ingested logs and pushed to HBASE database.
* Authenticate security, verifying the token, generating the token process done with additional security layer at the spring boot with JWT encryption done at transport layer.
* Processing posted payments to SAP using REDIS cache and integration with API Premium billing cycle and API payments micro services. Process disbursement API of claims payment during policy holder’s insured death and policy settlement will be distributed among beneficiaries. Micro services were established, and API developed using Java spring boot services activities and actions on the databases table updates for data integrity.
* Involved in Data Modeling sessions to develop models for Hive tables on PCF.
* Convert Agency management, policy customers for various projects to MDM, hierarchy and snowflake models using Snowflake tools on cloud environments.
* Imported and exported large sets of data into HDFS and vice-versa on AWS.
* Worked on Hive partition and Hadoop Big data technologies on AWS.
* Apache FLINK used is the orchestration tool and for to two sets of architectural problem of maintaining the microservices and second is data pipeline process monitoring and streaming data from Kafka to FLINK to data store to data mart.
* Kafka streamed online application transaction (Sales Force/ Custom built application) instream data. Mongo DB transaction data, regular csv files, big, transferred files to AWS S3 bucket and API stream data are pushed to Apache FLINK cluster using java spring boot application, python and GOLANG source process scripts.
* Worked on AWS to setup between EMR spark cluster and S3 storage.
* Worked on AWS Web service computing EC2 (resizing of services during high traffic) and S3 storage for the document retrieval for email communication attachment of documents to PEGA cloud (AWS) systems.
* Rabbit MQ for the online traffic distribution as part of architecture and WebSphere MQ series for the batch loads for the printing and distribution of documents needed for the claims to process.
* Similar pattern of data lake storage staged all the event-based transactions are stored on the AWS Aurora and push the data into data lake.
* JAVA/SCALA/PYTHON/GOLANG languages is used to integrate the multiple applications and the applications can initiate the processes concurrently. integrate with web applications and web services.
* Go language used to integrate the scripts (bash/Perl/python/java) with proper oauth2 security features of authentication and authorization.
* Hadoop distribution is Cloudera environment with Elastic Search/SLOR Search APIs to perform better search on the content management/policy holder /beneficiary search/agent search/address-based policy holder search etc.
* Leading and mentoring my development team of on sight 5 and 12 off sight (offshore team) and take the team to proper road path by mentoring proper guidance and mentoring them properly and able to successfully complete the project in time and within the budget.

# American Express, Phoenix AZ - Softech Solutions LLC Aug 2018

**– Dec 2018**

# Sr. Solution Architect Consultant

* Currently working as a Solution Architect/Senior Developer utilizing Big data, Micro Services architecture, and AWS; working on technologies such as Eureka, Zulu and HYSTRIX.
* Changing to Proxies for network mesh architecture for defining servers on proxies related to Micro services. Developed multiple micro services using Java spring and Java Spring boot services, Active MQ, WebSphere for synchronous and asynchronous transactions.
* Build Java/Spring boot/Kafka producer/consumer API service with aggregate API performing Redis cache reads, and updates and database commits to various API calls to database, mainframe interactive service (MQ), Rabbit MQ service database commit and other process application related metadata commits.
* Informatica Extract from cloud and distribution of data using virtualization.
* Recommended node Horizontal/Vertical scalability needed for capacity planning for the existing processes such as Informatica Cloud/Informatica, Master data management/TALEND/Hadoop for distributed/parallel processing environments.
* Integration of all data source posting to General Ledger, balancing ledger, remittance, differed ledger etc.
* Processing posted payments using REDIS cache and integration of billing cycle and payments.
* Involved in Data Modeling sessions to develop models for Hive tables.
* Imported and exported large sets of data into HDFS and vice-versa.
* Worked on Hive partition and Hadoop Big data technologies.
* Worked on AWS to setup between EMR spark cluster and S3 storage
* Worked on AWS Web service computing EC2(resizing of services during high traffic) and S3 storage.
* Apache FLINK used is the orchestration tool and for to two sets of architectural problem of maintaining the microservices for all API related at the middle tier.
* JAVA/SCALA/SPRING/SPRING BOOT batch, stream, extract APIs, steam APIs processing and loading to Hadoop/HIVE/REDSHIFT/DATA LAKE.
* Rabbit MQ for the online traffic distribution as part of architecture and WebSphere MQ series for the batch loads for the printing and distribution.
* GOLANG is used to integrate the multiple applications and the applications can initiate the processes concurrently. Integrate with web applications and Micro services APIs defined in API management service on APIGEE/API Gateway. User Interface (UI) based applications used with performance improvements along with MEMCACHE API for memory cache fast updates are used before calling the actual database updates.
* Hadoop distribution is Cloudera/MAPR environment with Elastic Search/SLOR Search APIs to perform better search on the content management/Customer/Credit card /address-based credit card search etc.

Leading and mentoring my development team of on sight 3 and 5 off sight (offshore team) and take the team to proper road path by mentoring proper guidance and mentoring them properly and able to successfully complete the project in time and within the budget.

# Travelport – Englewood CO - TCS JAN 2018 –

**AUG 2018**

# Sr. Technical Manager and Consultant

* Diligently worked with the customers and executive team to access the requirements and functionality for the Enterprise applications.
* Analyze the functional requirements and create JIRA stories
* Prepare detailed design documents for multiple APIs and uploaded the same in Confluence(documentation)
* Developing next generation user interface for Travelport’s front end applications: Smart point, GVM, Galileo Web Services for consumption of Online Travel Agents adhering to OD standards
* Customizing micro services strategy that would allow for greater flexibility and scalability for Travelport’s systems by designing multiple models for the MICRO services.
* Recommended node Horizontal/Vertical scalability needed for capacity planning for the existing processes such as DATA Stage/TALEND/Hadoop for distributed/parallel processing environments.
* Co-ordinate and mentor with the onshore/offshore development team for their clarifications
* Manage application deployment in Dev/Test/QA/Production environment
* Ensure on-time status reporting to managers/Scrum masters as Technical Architect/Development for proof of concepts.
* Drools business rules implementations on the processes and procedure.
* Code Version control using GIT, GITHUB.
* Apache FLINK used is the orchestration tool and for to two sets of architectural problem of maintaining the microservices and second is data pipeline process monitoring and streaming data from Kafka to FLINK to data store to data mart.
* Build Kafka based stream topics and new APIs that reads the KAFKA topic-based producers’ queue and configurable consumer API calls that reads the topics and update to various system using JAVA spring boot/Scala application API.
* Reports using high performance queries using IMPALA for data extraction from Hadoop.
* Worked on Open Shift to setup between spark cluster and Open Shift storage
* Worked on Azure Web service computing (resizing of services during high traffic) and Internal storage.
* Department wise API management microservices defined and enforced standard as middle ware integration between SOA legacy services and new API management services.
* Worked on RX Java map reducer and performed performance tuning for the processing of data and loading into Hadoop.
* Python scripts for processing the data and reporting on Dashboards.
* Rabbit MQ for the online traffic distribution as part of architecture and WebSphere MQ series for the batch loads for the printing and distribution.
* Hadoop distribution is Hortonworks environment with Elastic Search/SLOR Search APIs to perform better search on the content management/Customer/Credit card /address-based credit card search etc.
* Leading and mentoring my development team of on sight 15 and 20 off sight (offshore team) and take the team to proper road path by mentoring proper guidance and mentoring them properly and able to successfully complete the project in time and within the budget.
* JAVA/SCALA/SPRING/SPRING BOOT batch, stream, extract APIs, steam APIs processing and loading to Hadoop/hive/redshift/data lake.

# Responsibilities:

* Architecting and Development of Web services in OD standards
* Architecting and Development of ETL/ELT using DATASTAGE OR TALEND
* Unit Testing/Performance testing using Apache JMETER/Junit
* Google Standard Java Code Review
* SLOR/Sonar and Fortify scanning
* Scale Agile estimation of tasks on user stories
* Scale Agile PI planning to add new features.
* Cross team coordination and dependency identification during PI planning
* Production issues identification perform root cause analysis and support.
* Managing team offshore and onsite model.
* Using the guidelines of TOGAF implemented proprietary architecture into another architecture tool, using output checklists, a streamlined approach, and a richer, more detailed standard for describing architectures.
* Introduces suggestions and guidance for partitioning specific architectures within the enterprise.
* This expands on information in the ADM, including how to apply it within your organization, when it should be used, how it relates to TOGAF and security considerations.

# ARIZONA STATE - Phoenix, AZ FEB 2015 –

**DEC 2017**

# Technical Architect /Consultant/Sr. Solution Technical Development

Principal strategist and visionary for IT process for the Big Data project. Oversee and optimize BI Analytics, data collection processes and database maintenance. Design and generate reports abstracted from multiple data sources. Created and Enhanced the BI Reports and dashboards applications with new features to support the user experiences and with additional features. Applications educated state and county individuals, about the applications usage with use cases. Reports using high performance queries using IMPALA for data extraction from Hadoop.

Search on supervised data using keys and queries from Casandra for retrieval for UI such as Node.js and Content systems. Used some of the Lucene search patterns on Elastic search patterns. The Casandra development process using Java technologies and maintain the code on the GIT and GITHUB. Leveraging the various branches codes and mastering the process. Resolving the conflicts are automated and created framework for automated testing on the deployed codes and make sure it passes the tests before mastering the code. HBASE regionized keys are defined and loaded the data as Data Lake. Multiple JAVA Sprint boot/C# .net API was built using API Kafka stream-based API (Producer/Consumer) and transfer data to various application to perform data consistency.

* **Application Development**: Developed a Decrease Management Application in C# and Java that captured data for each case and reposted to the database. Monitored data re/duplication for cleansing on lab reports that are produced each year. HBase database used for storing the data lake.
* **Hadoop distribution** is Hortonworks environment with Elastic Search/SLOR Search APIs to perform better search on the content management/Customer/Credit card /address-based credit card search etc.
* **Leading and mentoring** my development team of Onsight 8 and 12 offsite (offshore team) and take the team to proper road path by mentoring proper guidance and mentoring them properly and able to successfully complete the project in time and within the budget.
* **Project Management**: Manage numerous technology projects concurrently, including data system development, ensuring all are in line with aggressive timeline, quality, and customer requirements. Acts as an integral participant in cross-functional troubleshooting of complex systems, software, applications, and programs. Deliver recommendations for solutions and improvement.
* **Research & Development**: Performed extensive infrastructural planning, piloting, technical solution design, build-out/implementation, and technical support services.

# American Reliable Insurance (ASSURANT Inc) - Scottsdale, AZ AUG 2006

**– FEB 2015**

# Sr. Lead Technical Architect

***Big Data Analysis Project (XML MAPPER Interface/interfaces)****:* Conceptualized, developed, and integrated new Admin setup cluster for the Insurance Risk data analysis and Accounting. Performed CASANDRA programming-based for extracting data on the fast base analysis and data rendering for the large 1 to 10 terra of data, as well as Management of Business Process Modeling and analysis.

* **Big Data Analysis & Analytics**: 2+ years of extensive expertise, also in Health Insurance/Insurance for Property & Casualty. Reports using high performance queries using IMPALA for data extraction from Hadoop. HBASE resinized keys are defined and loaded the data as data lake. Kafka stream ingested to updates to HBase tables
* **Mobile Web/UI Technology Framework**: In 8 years of expertise, utilized a multitude of Mobile/Web UI technology frameworks.

***Project Interface with Middle Tier (XML Hub interface/DCT Interface/Web Service Interfaces)***

*:* Architecting the re-design of the financial and policy data distribution

* **Architecture/Design/Development**: Redesigned financial and policy data distribution on the mainframe system to enable support for new financial models, real-time availability calculations using a top-notch data warehouse, and an integrated workflow/tracking system. Also architected and designed a Management Process and system for the Business Affairs team to manage the lifecycle of new products from concept/origination to pilot and then to development. Facilitated the conversion of several Lotus Notes Databases into J2EE applications and then integrated that with the portal. Designed more than 350 new tables (plus 150 changes to existing ones), 10 new databases of up to 80 tables; implemented redesign/changes/additions and designed operational systems as well as DDS reporting systems.
* Using the guidelines of TOGAF implemented proprietary architecture into another architecture tool, using output checklists, a streamlined approach, and a richer, more detailed standard for describing architectures.
* Introduces suggestions and guidance for partitioning specific architectures within the enterprise.
* This expands on information in the ADM, including how to apply it within your organization, when it should be used, how it relates to TOGAF and security considerations. Worked on AZURE to setup between spark cluster and Azure storage.
* Worked on Azure Web Service computing (resizing of services during high traffic) and Internal storage
* Worked on Java map reducer and performed performance tuning for the processing of data and loading into Hadoop.
* Loading data from RDBMS to HDFS using SQOOP scripts.
* Python scripts for processing the data and reporting on Dashboards.
* Flume web services and security are architected, developed, and implemented on AWS cloud.
* Monitored and fine-tuned Map Reducer programs running on the cluster.
* Defining the job flows and organizing the process flow, architected, developed, and implemented.
* Defining and implementing Security related tasks such as TLS encryption, Hyper (http), data encryption standards on architected, POC, developed the whole process of implementation.
* **Technical/Client Support**: Performed duties as a Technical Advisor for a SOA initiative, built a top-notch offshore support team, maintained positive vendor and supply relationships,
* **Hadoop distribution** is Cloudera/Hortonworks environment with Elastic Search/SLOR Search APIs to perform better search on the content management/Customer/Credit card /address-based credit card search etc.
* **Leading and mentoring** my development team of Onsight 15 and 30 offsite (offshore team) and take the team to proper road path by mentoring proper guidance and mentoring them properly and able to successfully complete the project in time and within the budget.
* **Project Management/Process Development**: Facilitated the initiative to transform the entire IT division into a Services-based model using ITIL principles, implementing Incident Management, Change Management, and Problem Management processes. Also, implemented a plethora of different projects using Web Sphere Portal 5.6. Directed the functional Policy Admin system infrastructure by ensuring that XML session data image was processed and converted to Standard ACORD format and then distributed accordingly. Directed teams to ensure all engineering resources were strategically focused and then provided proactive engineering services.
* **Research & Development**: Performed extensive infrastructural planning, piloting, technical solution design, build-out/implementation, and technical support services.

# UNITED HEALTHCARE- Phoenix, AZ JUL 2001

**– JUL 2006**

# Technical Architect

Lead all HIPAA Technical Architecture for whole processes for adjudicated claims; prepared presentations, demos, and material for vendor tools such as ROI, and Architecture Maturity; utilized PL/SQL processes to extract data from various databases and then integrated them for the interfaces in JAVA, Oracle, COGNOS, .NET, etc.; and worked on proof of concepts using Wake soft Architecture Platform to deliver service-oriented applications on BEA Web Logic 7.0 &

8.1 on Oracle Services with PL/SQL packages, procedures, functions, and triggers.

* **Efficiency & Process Improvements**: Designed and developed new competitive differentiation matrices and refined the value proposition to pull various sources of data from the data warehouse; defined the requirements for next version of the product based on customer

feedback and competitive analysis; ensured reusability and maintainability based on object- oriented principles; and developed sockets and Java Beans to connect and parse legacy data.

* **Architecture & Design**: Performed OO analysis and design, designed a comprehensive security based on Web Sphere-Security and Web Sphere-I Basic compliant specifications
* **Project Management**: Led the entirety of full lifecycle development to handle high volume of internet traffic.
* **Accomplishments**: Personally, designed more than 1,000 new tables plus made 600 changes to existing tables; 30 new databases of up to 80 tables; implemented redesign/changes/additions on more than 90 existing database systems; designed operational systems as well as DSS reporting systems.