AJEET SINGH RAJPOOT

Sr. Solution Architect |Snowflake |AZURE | Kubernetes | Big Data Engineer | Spark | Graph Databases |Cloud Solutions | ML Python |Data Governance |Metadata|

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SUMMARY

- I am a **seasoned software professional with 18+ years of experience** as a hands-on **Solutions Architect**, adept at designing, architecting, mentoring, training, and coaching teams. Known for strong **debugging** and **analytical skills**, I consistently deliver high-quality solutions in challenging and dynamic environments.
- **Extensive Technical Expertise:**
  Strong exposure to the **Big Data landscape**, **cloud technologies**, **microservices architecture**, **client-server systems**, **Docker/Kubernetes**, **streaming solutions**, and **machine learning trends**.
- **Big Data & Cloud:** Hands-on with Apache Spark, Hadoop, Kafka, Hive, MapReduce programming, and Scala; foundational knowledge of Python.
- **Architectural Leadership:** 8+ years of governance and assurance for Big Data projects; skilled in aligning technology with business goals.
- **Design & Documentation:** Expertise in preparing and reviewing SRS, HLD, LLD, and test case documents.
- **Emerging Tech:** Proficient in Generative AI, Blockchain, Crypto, and Web3.
- **Soft Skills**: Strong decision-making, interpersonal, and multi-tasking abilities; thrive in fast-paced, dynamic environments.

WORK EXPERIENCE AND ROLES

- **Current-**
  Oct'2021 - till date   Blueyonder India Pvt. Ltd.
  (Sr.Staff software engineer)   Bangalore, India
- **Past-**
  Dec'2018 – Aug'2021   Optum Global Solutions (India) Pvt. Ltd.
              (Solutions Architect)   Bangalore, India
  June'2011 – Dec'2018   Impetus Infotech (India) Pvt. Ltd.
              (Technical Architect)   Bangalore, India
  Apr'2008 – June'2011   SPA Computers Pvt. Ltd.
  June'2005 – Apr'2008   Huawei Technologies India Pvt. Ltd.
  Apr'2004 – June'2005   Evolving Systems India Pvt. Ltd.

KEY RESPONSIBILITES

- **System Architecture:**
  Design overall architecture, define best practices, and communicate them to teams.
- **Decision Management:**
  Document and present architectural decisions to stakeholders.
- **Best Practices:**
  Recommend industry standards tailored to project needs.
- **Optimization:**
  Implement strategies for performance and scalability.

TRAINING, PAPERS AND CERTIFICATIONS

- Azure Solution Architect Cloud Certifications
- Hands On Essentials - Data Warehouse --- Snowflake
- Published Evaluation of GRAPH technology landscape
- Cloud Architecture – Design Decision courses
- Certified Tiger Graph-GQL
- Informatica/Collibra Data Governance Certified
- Spark advance courses, optimization, performance tuning
- Bigdata and Cloud Architecture Design Certified
- Training and mentoring at organization level for Bigdata Stack tools and technologies.

TECHNICAL SKILLS

- **Programming Languages:** Core Java, Scala, Python, C, C++, PHP, Data Structures.
- **Architecture Tools:** Visio, Rational Rose, OmniGraffle, draw.io
- **BIG Data Technologies:** Spark Core, Spark SQL, Spark Streaming, Hive, Map Reduce
- **Graph databases:** Tiger Graph, DGraph, AWS Neptune
- **No SQL:** HBase, Mongo DB
- **Streaming:** Kafka, Azure Stream Analytics, Spark Streaming
- **Cloud:** Azure Services, Basics on AWS, GCP
- **Hadoop Distributions**: MAPR, HDP, Cloudera
- **Data Ingestion Tools:** Flume, Sqoop, ADF
- **Workflow/Scheduler:** Spring Batch, Oozie
- **Version Control:** CVS, SVN, Git,CMVC,bitbucket
- **Scripting:** Shell Script, Python, Sed, Awk
- **Database:** RDBMS (MySQL, Oracle), Informix
- **IDE:** Eclipse, IntelliJ, Code Blocks
- **Web Technologies:** AngularJS, PHP, HTML, SOAP, REST, OpenAPI/Swagger
- **BI/Reporting Tools:** Jasper Soft, Tableau,i-reports
- **Defect Tracking:** Jira, Bugzilla, Rally
- **Learning mode:** GraphQL, Data Synthesis, SIS(Self-sovereign identity),Azure Data Platform
- **Bigdata Tools Evaluation/Exploration:** Apache Tika, Splice Machine, MemSQL, Apache Falcon, Apache Atlas, Apache ignite, Keyclock, Jethro, ELK, Apache Ranger, Master Data Management (MDM), Kerberos, Machine learning algorithms.

QUALIFICATION

- Masters in computer application **(MCA)**
  MITS, GWALIOR (MP)-INDIA
- Bachelor's in computer science **(B.Sc.)**
  Holkar Science College, INDORE (MP)-INDIA

PROJECT WORK

Cognitive Business Planning (CBP)   **Feb-2022-Till Date**

Company: BlueYonder (India) Pvt. Ltd.

Designation/Role: Sr. Solution Architect

Platform & Skills: Azure cloud with variety of services like Service Bus, Storage Queue, Azure Functions, Logic Apps, Storage Solutions, Snowflake, , API Management, Kafka Mirroring, EventHub, VM,Vnet etc etc.

Brief: CBP platform which brings the values of core assets in the system and integrates the pieces of multiple data sources which produces lots of information.

Roles and Responsibilities:

- Responsible for developing overall architecture of the system, defining guidelines, principles, best practices and communicating these to the development, test, and operation teams.
- Responsible for managing architectural, technical decisions log and presenting them to customers and other stakeholders.
- Recommending usage of industry best practices and approaches based on project requirements.
- Providing architecture governance by validating the solution to the agreed architecture.
- Individual contribution to estimation, design, and implementation of various modules.
- Implemented framework used to develop the project.
- Defining and implementing different performance and optimization approaches.
- Presenting the solution to developers and testers to develop and test the solution based on the agreed user stories

COE Work Healthcare Platform (HCP)   **MAY-2020-Aug-21**

Company: Optum Global (India) Pvt. Ltd.

Designation/Role: Solution Architect

Platform & Skills: Azure cloud with variety of services like Service Bus, Storage Queue, Azure Functions, Logic Apps, Storage Solutions, Azure Data Factory, Snowflake, Azure Synapse, API Management, Kafka Mirroring, EventHub, VM,Vnet etc etc.

Brief: HCP platform which brings the values of core assets in the system and integrate the pieces of multiple data sources which produces lots of information.

Roles and Responsibilities:

- Responsible for developing overall architecture of the system, defining guidelines, principles, best practices and communicating these to the development, test, and operation teams.
- Responsible for managing architectural, technical decisions log and presenting them to customers and other stakeholders.
- Recommending usage of industry best practices and approaches based on project requirements.
- Providing architecture governance by validating the solution to the agreed architecture.
- Individual contribution to estimation, design, and implementation of various modules.

Product Name: Enterprise Metadata Repository

Company: Optum Global Solutions (India) Pvt. Ltd.   **Mar-2019 – Oct-20**

Designation/Role: Solution Architect

Platform & Skills: Ingestion layer --- Java, Big data Hooks, Machine learning Process

UI Layer----- Angular JS, Java Scripts, Swagger API

Storage Layer ----Graph databases, Collibra Tool

Description:

A Solution that facilitates internal and external stockholders to own the end-to-end process to data modeling to dashboard design exploration.

It Also increases Business values to the systems and their information's, using metadata of the variety of system.

Roles and Responsibilities:

- Responsible for developing overall architecture of the system, defining guidelines, principles, best practices and communicating these to the development, test, and operation teams.
- Responsible for managing architectural, technical decisions log and presenting them to customers and other stakeholders.
- Recommending usage of industry best practices and approaches based on project requirements.
- Providing architecture governance by validating the solution to the agreed architecture.
- Individual contribution to estimation, design, and implementation of various modules.
- Implemented framework used to develop the project.
- Defining and implementing different performance and optimization approaches.
- Presenting the solution to developers and testers to develop and test the solution based on the agreed user stories

Project Name: Cobrand Partners BI reporting.

Company: Impetus Infotech (India) Pvt. Ltd.   **Mar-2018 – Dec-2018**

Client: American Express (AMEX)

Designation/Role: Technical Architect

Platform & Skills: UI Layer ----- Angular2 JS, Tableau.

Ingestion layer ---- Magellan Tool, Spark Processing engine.

Storage Layer---- Hive, Jethro DB.

Description:

A Solution that facilitates internal and external stockholders to own the end-to-end process to data modeling to dashboard design exploration.

It Also increases partners visibility on their product performance, usage, and growth. It leverages corner stone data platform and allows ad-hoc reporting to be uploaded by the partner and have ability to scale over time to multiple partners.

- Successfully developed and delivered couple of initiatives on big data analytics and large data processing using Spark and MongoDB
- Developed framework to support multivariate data into the single place

Big Data Practice (COE Work)

Project Name: DataFabric

Company: Impetus Infotech (India) Pvt. Ltd.   **Jan-2018 – Sept-2018**

Designation/Role: Associate Technical Architect

Platform & Skills: UI Layer ----- Angular2 JS, Node JS , Express JS, Java Scripts.

Processing Layer-----Spring batch, Hadoop Stack, Shell Scripts, Perl, Python.

Ingestion layer ---- Sqoop, Kafka, Spark Processing engine.

Storage Layer ----Mysql , MongoDB.

Roles and Responsibilities:

- Responsible for developing overall architecture of the system, defining guidelines, principles, best practices and communicating these to the development, test, and operation teams.
- Responsible for managing architectural, technical decisions log and presenting them to customers and other stakeholders.
- Given the design and architecture for the POC for Big Data practice group.
- Successfully developed and delivered couple of initiatives on big data analytics and large data processing using Spark and MongoDB
- Developed framework to support multivariate data into the single place

ProjectName:SMART2.0

Company: Impetus Infotech (India) Pvt. Ltd.   **Nov-2016 – Dec-2017**

Client: American Express (AMEX)

Designation/Role: Associate Technical Architect

Platform & Skills: Core Java, Hadoop eco system using Hadoop 2.6.0, Hive 1.2.1, PIG 0.12.1 UNIX scripting Using SPARK 1.6.1. Hbase

Cluster Infrastructure   : 411 Node MapR Hadoop Cluster 5.2, Octa core 2.4 GHz, 32 GB RAM

Redhat Enterprise Linux 6.6

Brief: SMART is a business intelligence reporting tool that provides standardized reporting and analytics through an easy to access, self-service interface. It supports Merchant Acquisition's growth strategies, providing them with valuable Merchant and Industry insights

As a part of this project SMART 2.0, the Actuate tool will be migrated to Jasper-Soft and the data will be processed into Big-Data.

Roles and Responsibilities:

- Work with business team on suitable solutions for product strategy, involved in decision making for the tools and technology selection with business and portfolio architects.
- Deal with different third-party vendor (Jasper soft, Tableau , MicroStrategy, WebFocus) along with business and Architects for the product strategy and solutioning.
- To work closely with all levels of American Express management to document business objectives and to develop practical innovative solutions that support these objectives
- Build strong relationships within Impetus and help ensure that leadership team is aligned to project strategies and priorities
- Managing Release /Sprint plans which includes scheduling, budgeting, and managing the development of products and solutions around Big Data with business and multiple technology team.
- To review the detailed low-level design prepared by subordinates and their direct supervisors based on high-level design above. .
- Perform performance appraisals and recommend salary increases for the staff of engineers working under me.
  Coordinate the training needs of my team members with the global training cell of Impetus

N&A (Name and Address)   **March-2016 – Oct-2016**

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https://www.linkedin.com/in/ajeet-singh-rajpoot-96392b16/

Company: Impetus Infotech (India) Pvt. Ltd.

Client: American Express (AMEX)

Designation/Role: Associate Technical Architect

Technology Stack: Spark 1.6.1, Map Reduce, Hive 1.2, Scala, Java, Spring Batch

Cluster Infrastructure   411 Node MapR Hadoop Cluster 5.2, Octa core 2.4 GHz, 32 GB RAM Redhat Enterprise Linux 6.6

NumeriTrack – MultiSpid Data Migration

Company: Impetus Infotech (India) Pvt. Ltd.   **July'15 – Feb'16**

Client: American Express (AMEX)

Designation/Role: Associate Technical Architect

Platform & Skills: Linux, Oracle SQL, Java, Hadoop 2.2.0, Hive 0.12.0, Sqoop

NumeriTrack – MultiSpid Support

Company: Impetus Infotech (India) Pvt. Ltd.   **Aug'14 – Apr'15**

Designation/Role: Lead software Engineer

Platform & Skills: Linux, C++, Oracle SQL, Java

NumeriTrack – SOAC Adapter

Company: Impetus Infotech (India) Pvt. Ltd.   **Oct'13 – July'14**

Designation/Role: Lead Software Engineer

Platform & Skills: Linux, C++, Oracle Pl/Sql

Numeritrack

Company: Impetus Infotech (India) Pvt. Ltd.   **Nov'12– Sept'13**

Client: AT&T Wireless, SBC, Sprint USA.

Designation/Role: Lead software engineer

Platform & Skills: Java, C++, Linux, Shell Script, Oracle.

Local Number Portability   Jul'11 – Oct'12

Clients: Major telephone service providers in the US including ATT, Qwest, Sprint, Alcatel, Comcast etc.

Role: Key team member contributing to implementation of client's business requirements.

Environment: C++, Java, Linux, Oracle 9i/10g

Designation/Role: Lead software engineer

Cell Broadcasting System (CBS)

Company: SPA Computers Pvt. Ltd.   **Aug'10-Jun'11**

Client: OMNITEL, South Korea

Designation/Role: Project Leader

Platform & Skills: C, C++, PHP, LINUX, MySQL, Shell scripting

Fleet Management System (FMS)

Company: SPA Computers Pvt. Ltd.   **Apr '08 – Jun '10**

Client: Multiple Clients, INDIA

Designation/Role: Technical Leader

Platform & Skills: LINUX, C++, PHP, Apache, Shell Script

Wireless Intelligent Network (WIN)

Company: Huawei Technologies India Pvt. Ltd.   **Sep'05 - March'08**

Client: MIC Tanzania, MTS Russia multiple Huawei customers

Designation/Role: Module Leader

Platform & Skills: UNIX, C++, Shell Script, JAVA, Cfg-Tool

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