



**NAGESWARA RAO
MATUKUMALLI**

SR. CLOUD ENGINEER

PROFILE

A Tech-oriented, diligent, competent professional with architecture skills, diversified experience, and insight to elevate application, computing platform infrastructure and data operations to the cloud

CONTACT

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EDUCATION

Bachelor of Engineering.
(Electrical & Electronics)
University of Madras - 2001

INTERESTS

- Information Technology
- Cloud Technologies
- Photography
- Science

SUMMARY

- 14 years (USA, UK & India) of overall IT experience with last 5 years on Platform as a Service Domain and another 8 years on Data Management/Integration technologies
- Lead & participate in architectural meetings to take design, development decisions.
- Implementing IaaS and PaaS components in Azure & AWS.
- Instrumental in Designing, Developing and Implementing FedRAMP Compliant Analytics Platform on AWS.
- Implementing different cloud technologies both in terms of Infrastructure & Architecture Styles.
- Working Experience in Build, Release and CI/CD in Azure Pipelines.
- Industry exposure to Telecommunications and Health Care.
- Skilled in Design, Development, and Implementation of Data Warehouses using Ab>Initio
- Deft in Data Extraction, Transformation, and Loading (ETL) using Ab>Initio with Oracle, Teradata and flat files.
- Strong communication, relationship and coordination, analytical and problem-solving skills.
- Identifying issues and providing solutions to the client and team members.
- Experience in Ansible and related tools for configuration management.
- Experience in creating, building and managing public cloud infra.

WORK EXPERIENCE

Sep 2020 – Dec 2020

Indium Software Pvt Ltd.

Sr. Data Architect

Roles:

- Solution Architect
- Sr. Data Engineer
- Data Virtualization Lead

Nov 2009 – Sep 2020

DXC Technology

Analytics Platform SME (AWS/Azure)

Roles:

- Azure Professional Service
- Platform DevOps Engineer
- Hadoop Administrator (Hortonworks)
- FedRAMP Platform Engineer

May 2007 – Oct 2009

Accenture Service Pvt Ltd

Sr. Software Engineer

Roles:

- Data Integration Expert (Ab>Initio)
- Team Mentor
- Code Reviewer

CERTIFICATION

AWS Certified Solution Architect (08/2020)

Microsoft Certified Azure Administrator (06/2021)

SKILLS

- Cloud** : Amazon Web Services, Microsoft Azure
- DevOps** : Ansible, Chef, Azure DevOps, Azure Pipelines, AWS CodePipeline
- Data Encryption** : Vormetric DSM, AWS KMS
- Data Masking** : Vormetric Tokenization, Voltage SecureData
- Databases** : Oracle, Teradata, Vertica, Azure Synapse, Amazon Redshift.
- Infrastructure** : Trend Micro Deep Security, CloudFormation, ARM Templates,
- Tools** : Terraform, Logic Monitor, Nagios, Ganglia
- Programming** : Shell Scripting, Python, PowerShell, SQL
- OS** : Linux, Windows Macintosh
- BigData** : Hadoop, Hive, HBase, Sqoop, Pig, Oozie.
- Methodologies** : Waterfall, Agile, CI/CD
- ETL Tools** : Ab > Initio, Informatica

Denodo (09/2020 – 12/2020)

Client: Indium Soft Pvt Ltd | **Organization:** Indium Soft Pvt Ltd | **Location:** Bengaluru, India | **Team Size:** 5

Environment: Microsoft Azure, Denodo 8.0 | **Role:** Data Virtualization Lead / Sr. Data Architect

Description:

Digital solutions business of indium focuses on Data Engineering, Advance Analytics, Application Development services to the clients. Recently Indium has partnership signed up with Denodo. Denodo is a Data Virtualization Platform which should help customer is reducing the cost of building DW systems.

- Building Denodo capability within in Indium.
- Working on POCs with different technology integrated to Denodo.
- Building Use Cases with Denodo.

FedRAMP Compliant Analytics Platform (AWS) (03/2020 – 09/2020)

Client: DXC Technology | **Organization:** DXC Technology | **Location:** Bengaluru, India | **Team Size:** 20

Environment: Amazon Web Services | **Role:** Lead / Solution Architect

Description:

DXC Technology offers a FedRAMP Certified Multi-Tenant Analytics & AI Platform as a service to state government projects in USA. This project is to ensure of building & managing FedRAMP Certified platform in **DevOps CI/CD** manner.

- Instrumental in designing the architecture of the platform using **multi account AWS** deployment.
- Participate in the decision making of choice of toolset for different functional areas of the platform.
- Build **CloudFormation** Templates to automate the deployment process into multiple accounts.
- Employing **Ansible** for configuration management of immutable components of the platform.
- Implementing security controls as required by FedRAMP regulations.
- Implementing DNS architecture in a Multi-Account deployment of AWS.
- Automating the System Patching across AWS and on-prem using **AWS Systems Manager**.
- Working knowledge on implementing **Active-Directory/LDAP** authentication.
- Working knowledge on implementing monitoring systems using SaaS based Like **Logic Monitor/CloudWatch**.

Stratos (11/2020 – 03/2020)

Client: General Motor Finance | **Organization:** DXC Technology | **Location:** Arlington, Texas | **Team Size:** 7

Environment: Microsoft Azure, Azure DevOps, Azure Pipelines, ARM Templates, Terraform. | **Role:** Lead / Azure Advisory

Description:

This project is to migrate application from monolithic to micro services to Azure Public cloud. A digital transformation of the enterprise application workloads.

- Member of **Cloud Center of Excellency** within GMF.
- Developing & Implementing Infrastructure as code.
- Implementing **RBAC** at all levels of the Architecture.
- Hands on working knowledge with Azure PaaS components like **API Management, Application Gateway, Load Balancers, Firewalls, Virtual Machines etc.**
- Implementing **CI/CD pipelines** using **Azure pipelines**.
- Use of **Azure DevOps** for **SCRUM**.
- Redesign and implement the Log Analytics.
- Documentation of the Product design on Confluence.
- Working Knowledge on Hub-Spoke Architecture.

Analytics & AI Platform as a Service (11/2015 – 10/2019)

Client: DXC Technology | **Organization:** DXC Technology | **Location:** Plano, Texas | **Team Size:** 55

Environment: Microsoft Azure, HPE Helion, AWS, Hadoop (Hortonworks) | **Role:** L3 / Solution Architect / Platform Engineer / System Admin

Description:

DXC Technology (Formerly known as Hewlett Packard Enterprise) provides Platform as a service to its customers on public & private clouds. This also includes multiple areas of the platform like Infrastructure, Network Connectivity, Firewalls, VPN, Security, Monitoring, Backups, Governance, & Migrations.

- Manage several Hadoop clusters in production, development, & DR environments.
- Recommend appropriate hardware specs for the Big Data Platform.
- Responsible for **installing, configuring, supporting** Hadoop Clusters.
- Manage large scale **Hadoop/Spark cluster** environments, handling all environment builds, including **design, capacity planning, cluster setup, scaling, scheduling and monitoring**, setting up Kerberos.
- Experience on **commissioning, decommissioning, balancing**, and managing nodes and tuning server for optimal performance of the cluster.
- Experience in implementing **High Availability** for HDFS, Yarn, Hive and HBase.
- Installing and configure **ODBC** connection to Hive.
- Implementing security on Hadoop cluster with **Kerberos, LDAP integration** and **TLS** configuration.
- Design & Implement a Monitoring Solution using **Logic Monitor**.
- Automate the **OS Patching** among fleet of instances in scope using **AWS SSM**.
- Implement different authentication & authorization tools (IPA, Active Directory).
- Harden the operating systems.
- Efficient Cost Estimations for Cloud Platforms.
- Automate the deployment of the platform using Ansible & Chef.IO.
- Documenting knowledge articles for the team.
- Onboarding and training on best practices for new team members.
- Implementing Data at Rest encryption using **Vormetric Data Security Manager**.
- Co-ordinate with Offshore on the activities related to platform support.

SMO (03/2015 – 10/2015)

Client: Hewlett-Packard | **Organization:** DXC Technology | **Location:** Houston, Texas | **Team Size:** 15

Environment: MapR, Java, Shell Scripting, Vertica | **Role:** Big Data Developer

Description:

Hewlett-Packard Enterprise group has to undergo a separation from Hewlett-Packard Global entity forming a new company called HPE. The goal is to separate the systems and data related to two entities and build a new enterprise data warehouse.

- Develop MapReduce program to parse the raw data, populate into staging tables.
- Supported code/design analysis, strategy development.
- Collaborate with different teams to ensure data quality
- Build automated framework using Apache Sqoop to unload/load data to/from multiple systems.
- Design and implement End to End Monitoring system.
- Evaluate the pros/cods of different tools like Apache Kylin, Waterline etc.
- POC on Elastic Search Stack (ELK) to implement a web portal activity around the globe.
- Developing Logstash configuration files to stream logs to elastic search.

Nucleus (11/2009 – 03/2015)

Client: O2 Telefonica | **Organization:** DXC Technology | **Location:** Chennai, India | **Team Size:** 30 | **Onshore:** Slough, UK

Environment: Ab>Initio, EME, Plan>It, ACE, MHUB, Teradata | **Role:** Sr. Data Integration Expert

Description:

O2 Telefonica is UK's leading service provider of mobile phones and broadband. Nucleus is a solution to build one centric data warehouse for marketing division of O2 focused on customer rather than on device.

- Requirement analysis, Development & Performance Tuning.
- Building shell-based configuration management utility using the capabilities of Ab>Initio EME.
- Streamline the release management process using the utility.
- Build solution to move the codebase between environments.
- Build utility to perform code merge impact analysis.
- Brainstorming in designing and solutioning the ETL Framework.
- Develop customized re-usable components which enable to plug in into ETL workflow.
- Supporting other teams on the issues related to ETL Framework.
- Manage & Implement changes in the ETL Framework.
- Document the changes of the ETL framework.
- Manage the change control on the ETL Framework releases.
- Implement Reference data management solution
- Develop & Implement Ab>Initio ACE templates.
- Utility script to clean up the Data Lineage issues in Ab>Initio EME.

Pharao Data Warehouse (03/2009 – 10/2009)

Client: Mobistar | **Organization:** Accenture Services | **Location:** Mumbai, India | **Team Size:** 7

Environment: Ab>Initio, EME, Oracle | **Role:** Sr. Data Integration Engineer

Description:

Mobistar is one of the biggest telecom operators in Belgium delivers mobile telephony and fixed telephony solution to sole traders, small & medium enterprise or large companies. The goal of this project is building a complete accounting & reporting system known as MARS (Mobistar Account & Reporting System). Pharao is implementation which deals with remuneration and compensation of Mobistar dealer across the country.

- Develop & Build ETL application using Ab>Initio
- Perform peer Review of the code by team members, thus ensuring quality of the delivery.
- Prepare & Refine Estimation model for the workload in agreement with client.
- Building reusable assets for the project.

Strategic Customer Management (05/2007 – 02/2009)

Client: Vodafone, UK | **Organization:** Accenture Services | **Location:** Mumbai, India | **Team Size:** 7 | **Onshore:** NewBury, UK

Environment: Ab>Initio, EME, Oracle | **Role:** Data Integration Engineer

Description:

Vodafone is one the biggest telecom operators in England delivers mobile telephony and fixed telephony solution. This project was initiated to improve the customer experience with the call center representatives and the information customer centric rather than subscriber number centric as it is the case with Tactical customer management tools being using at Vodafone. Amdocs Clarify was chosen to be the solution which integrates most of the Vodafone source machines to one single interface with SSO, thus helping the call center representatives response time and retaining happy customers. Customer information is migrated from TCM to SCM machine integrating with customer details from billing machines of Vodafone.

- Data migration from TCM to SCM.
- Migrating huge volumes of interactions data.
- Low-level design of load process.
- Building accelerators for the data load components.
- Refreshing data models of the Amdocs clarify underlying database.
- Oracle DBA activities in lower environments.