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### **Professional Summary –**

I am a dynamic and accomplished IT professional with over **23 years of industry experience**, specializing in cloud infrastructure **architecture, data engineering, DevOps, and large-scale digital transformation**. I have successfully served as a **Cloud Infrastructure Architect across Unix, Azure, AWS, and GCP environments, delivering enterprise-grade solutions for global organizations**. My expertise spans multi-cloud platforms including **Amazon Web Services (AWS), Microsoft Azure, and Google Cloud Platform (GCP)**. I have led mission-critical projects utilizing tools and technologies such as **Terraform, Ansible Automation, Kubernetes, Docker, Azure DevOps, OpenShift, VMware, Windows, and Unix systems**. I bring deep experience in cloud migration and infrastructure modernization, with hands-on proficiency in **Azure Data Factory, Azure Migrate, Azure VMware Solution (AVS), Azure Site Recovery (ASR), Site Recovery Manager (SRM), PlateSpin, and vRealize Automation (vRA)**. My work has consistently enabled seamless transitions to the cloud and optimized enterprise IT operations.

I have hands-on expertise in modern data platforms and analytics ecosystems including **Databricks, Snowflake, ELT/ETL, Apache Spark, Hadoop, Azure Synapse, Apache Airflow, Kafka, and Delta Lake**. I specialize in architecting scalable data pipelines and analytics solutions. My data science and machine learning experience spans **Python, SQL Server, Scikit-learn, TensorFlow, PyTorch, MLflow, and MLOps** best practices to build and operationalize intelligent systems. I also bring strong visualization skills using Power BI and Tableau. As a transformation and transition lead, I've successfully delivered complex end-to-end projects, with deep exposure to enterprise-grade IT processes, tools, and methodologies critical to organizational success.

Adept at client engagement and cross-functional collaboration, I possess strong written, oral, and interpersonal communication skills that empower me to drive strategy, innovation, and execution across diverse environments. My technical depth, leadership, and proven record of delivering impactful cloud, AI, and data solutions firmly establish me as a **highly skilled and strategically vital professional**—uniquely positioned to contribute to the technological and economic interests of the United States.

### **Synopsis –**

- Provide Azure data factory solution to client to achieve data migration and data preservation.
- Having strong operational skill sets to work and manage UNIX/Cloud/VMware and Windows platform.
- Provide entire Cloud and Compute solution to client to achieve better benchmarking and reduce footprints in the datacenter.
- Technically capable of managing and providing solution to both UNIX and Azure/AWS Cloud Platforms.
- Having good knowledge and experience to setup Azure DevOps and Jenkins Pipeline for Infra build.

- Work with other teams like Storage, Network, Database, SAP e.g... to understand the requirement to avoid any performance issues during regular operational work.
- As a Cloud/UNIX/VMware Transition and Transformation SME, I do the Cloud Solutions, New Data Center Build and do the migrations from old to new Infrastructure, On-Premises to cloud migrations and provide healthy program to avoid any risk during the migrations.
- Understand the physical Infrastructure and provide the solution to migrate them into Virtualization technologies and Lift and Shift migration approaches.
- Prepare HLD (High level documents), LLD (Low level documents) and build documents for the existing and new environment to understand by client and internal people.
- Work with vendor on quotes and technical challenges to avoid any miss during the build and transformation process.

#### **Project Delivered in IQVIA Inc–**

- **HCS (Inhouse Project (Product & Engineering)** –This is a solution using Azure Infrastructure as a Service (IaaS) and Platform as a Service (PaaS) components and design on the Microsoft Azure Resource Types / Resources in the assumption that HCS has an existing Azure subscription with a foundation of existing Azure AD Domain Services & Virtual Networks/ On-premises VPN connectivity for product and engineering. Quarterly data refresh using ADF pipeline
- **CSL (Financial Group, Inc)** – The platform for the Archive Solution is Microsoft Azure. This is a solution using Azure Infrastructure as a Service (IaaS) and Platform as a Service (PaaS) components and design on the Microsoft Azure Resource Types / Resources in the assumption that CSL has an existing Azure subscription with a foundation of existing Azure AD Domain Services & Virtual Networks/ On-premises VPN connectivity for archive staging sites.

#### **Project Delivered in HCL Technologies–**

- **CNO (Financial Group, Inc)** – Is my current project where I am working on Cisco UCSM and VMware design/build and migration solutions to migrate the workloads (Unix and Windows) to new data centers using SRM
- **Syneos Health** – In this project, I am working as a Solutions Architect to setup Azure Landing Zone for Migrating 1500+ Workloads (UNIX and Windows) for Globally distributed DC's and Azure VMware Solution (AVS) migrations
- **Canadian Tier (CTC)** - In this project, I was doing solutioning the data center build on IBM Power 9 and migrating LPARs from Power8 to Power 9 Frames (LPM)
- **BCBSRI (Blue Cross Blue Shield of Rhode Island)** – In this project, I worked on design and Setup Azure Landing Zone for Migrating 800+ Workloads (UNIX and Windows) for Globally distributed DC's.
- **Smith & Nephew** - In this project, I worked on design and Setup Azure Landing Zone for Migrating 800+ Workloads (UNIX and Windows) for Globally distributed DC's
- **BD (Becton Dickinson)** - In this project, I was doing data center build and migrations on IBM

- Power9 and Windows/VMware platform migrations
- **GSK (Glaxo Smith Kline)** - In this project, I was doing entire UNIX landscape (AIX, Linux, HP-UX) Infrastructure Transition.
  - **PayPal** – In this project I have designed and Setup Azure Site Recovery and Azure Migrate, Also Migrated 500+ various Workloads for Globally distributed DC's s.
  - **RFIH (Synchrony Financial)** – In this project, I was doing Linux, Greenplum DCA and VScale Infrastructure Transition.
  - **Anglo American, South Africa** – worked on DC Tech refresh project - Installation of VMware 6.5 on DELL M1000e and HP chassis. DR Solution - VMware Site Recovery Manager 8.1 and migrate the data centers.
  - **SOMOS** – Worked on Transformation activities to setup DR Datacenter for Compute and DC migrations activity
  - **MSAG (The Main Street America Group)** – I have handled Transition and Transformation UNIX/VMware project for US-Florida region.
  - **Rogers Communications, Canada** – This project is to take transition and Build Data Center, Data Center Migration and maintain a large enterprise infrastructure with 3000+ UNIX/VMware/Windows Storage running business critical Canadian communications project where I've been deployed client location to represent build and migration plan and designs.
  - **Unilever, UK** – Worked as a Technical Subject Matter Expert to support entire UNIX team in various regions.
  - **AstraZeneca, Singapore** – This project is to build Data Center Setup, Data Center Migration (Transformation Project) and maintain a large enterprise infrastructure with 3000+ AIX/LINUX/Windows running business critical project where I've controlled two huge Datacenters in Singapore and Sweden.

### **Experience Synopsis –**

- Expertise in product engineering and development for Azure data factory data engineering.
- Experience in Architecting, Design, and Implementation of Azure data factory and automation of deployment.
- Experience in Architecting, Design, and Implementation of highly scalable, highly available, Cloud (IaaS, PaaS, SaaS) services and solutions for Private Cloud, Azure Public Cloud and Hybrid models.
- Hands on Experience for Azure Cloud including data migration from on premises to Public Cloud, Modernizing the legacy application for Cloud and API integration of Azure Cloud with 3rd Party applications.
- Technical presentations, Solution Demonstrations (Proof of Concept), Proposal Preparation and Presentation, BoM & BoQ preparation. Customer visit for requirements understanding & solution designing technical presentations.
- Enable customers with Cloud strategy and advise customers on effective architectural & implementation models for Private, Azure Public Cloud, Hybrid and Multi-Cloud scenario.
- Hands on Experience of deploying, managing, and designing Azure Public Cloud IT landscape for Enterprise Customers along with Migration strategy to Cloud.

- Hands on Experience of using and deploying Cloud Native tools for managed Services like Monitoring, Backup, Application Modernization and Cloud Migration.
- Designed and implemented IaaS/PaaS use cases using Microsoft Azure Cloud, Azure Stack, and Microsoft Private Cloud.
- Enable Identity & Access Management using AD, Azure AD and Privilege Identity Management SSO/Federation, AD/Azure AD.
- Hands on experience in creating/building and deploying complex Cloud applications and infrastructure solutions in small, medium, and large enterprise environments.
- Implement an Azure Active Directory, Integrate an Azure AD with existing directories, implementing directory synchronization Enable directory integration.

- Implement an Azure DevOps pipeline to provision the infrastructure and application deployment in Blue/Green strategy
- Implement infrastructure provisioning using Terraform automation tool.
- Implement Cloud Services, implement ACLs Network Security Groups (NSG), Deploy, and manage cloud services, Monitor cloud services.
- Experience in Architecting and deploying Private Cloud Solutions using Microsoft System Center Suite, VMware ESXI and Microsoft Windows Azure Pack
- Implement Virtual Networks, deploy a VM into a virtual network; deploy a cloud service into a virtual network; configure static IPs; configure internal load balancing; design subnets Modify a network configuration, modify a subnet; import and export a network configuration.
- Experienced in provisioning instances, deploying applications and handling resources in Azure and AWS cloud.
- Experienced in automating system admin tasks like provisioning, installing, configuring, updating and deploying services using Ansible and Puppet.
- Participate in operational and technical meetings with Customer and team members. Successfully handled projects and deliver the support on time.
- Maintained team to provide support for technical related issues as well as do the new installation and be a part of implementation team.
- Periodically reviews appropriateness of technologies used for system components and recommends modifications and/or upgrades when necessary to keep systems operating according to defined service level agreements and operating level agreements.
- As per requirement create technical documents for smooth delivery of the change.
- Recruits staff to include interviewing, hiring, assigning work, training, coaching, and counseling ensuring consistent application of Employee Guidelines, processes, and procedures. Conducts performance reviews and holds employees accountable for optimal performance of their responsibilities.

## **Academic –**

- **Master of Science in Data Science**, Jagora University, Cameroon
- BCA [Bachelor of Computer Applications, DR.C. V. RAMAN University.
- Diploma in Electronics and Communication Engineering, Bakthavatchalam Polytechnic.

## **Certifications –**

- **Microsoft Certified: Azure Data Engineer Associate (DP-203)**
- **Microsoft Certified: Azure Database Administrator Associate (DP-300)**
- **Microsoft Certified: Azure Data Fundamentals (DP-900)**
- Microsoft Azure Fundamentals -AZ900
- Microsoft Azure Administrator -AZ103
- Microsoft Azure Architect Technologies (AZ-300)
- Microsoft Azure Solutions Architect Expert (AZ-301)
- Microsoft certification Azure DevOps Engineer Expert (AZ-400)
- Microsoft Azure Security Engineer Associate (AZ-500)
- Red Hat Certified Specialist in OpenShift Administration (EX280)
- AWS Certified Solutions Architect - Associate (SAA-C02)
- AWS Certified Solutions Architect – Professional (SAP-C01)
- VMware vSphere 6.7 Foundations
- VMware Professional vSphere 7 exam (VCP-DCV)
- VMware Specialist - vSAN 2020
- Red Hat Certified Specialist in Ansible Automation certification
- RED HAT CERTIFIED SYSTEM ADMINISTRATOR
- RED HAT CERTIFIED ENGINEER
- IBM Certified P-series systems Administrator
- IBM Certified POWER HA (HACMP) Administrator
- Virtualization Technical Support for AIX and Linux - v2
- AIX 7 Administration
- High Availability for AIX - Technical Support and Administration -v2
- IBM Certified Technical Specialist - Power Systems with POWER8 Enterprise V1
- IBM Certified Technical Sales Specialist - Power Systems with POWER8 Scale-out V1

### **Technical Skills –**

Virtualization	:	PowerVm, VMWare, KVM
Cloud	:	IaaS, PaaS,SaaS Azure, AWS, GCP
Private Cloud	:	Red Hat Openstack, Red hat OpenShift IBM PowerVC
Operating System	:	Linux Red hat 6.x 7.x, SLES 11 and 12, AIX, Windows
Servers	:	IBM P5, P6, P7, P8 series (All High-End servers), Blade Centre
Storage	:	SAN (DS4K, DS5K, V7000, XIV) & San switch (Brocade, cisco)
Converged	:	IBM PureFlex, Hp Converged Infrastructure
Hyper Converged	:	Nutanix
Network	:	L2, L3 layers, Firewall, Vlan Tagging
Tools	:	Azure Migrate, Platespin Migrate, BMC, Splunk
Automation	:	Terraform, Ansible Automation
Database	:	Oracle, RDS, NoSQL
Cluster	:	HACMP, GPFS, VCS and Power HA 7.1.3
DevOps	:	Azure DevOps and Jenkin Pipeline configuration
Containers	:	AKS, Docker Engine, Linux Containers
Backup	:	IBM TSM, Rubrik client, Azure backup

### **Professional Training Undergone –**

- Azure Data Engineering
- Power Bi and Tableau visualization
- COE (Centre of excellence – AIX)
- AU14 AIX5L System Administration – Implementation
- AU16 AIX5L System Administration II - Problem Determination
- AU54 HACMP System Administration – Planning & Implementation
- AIX Virtualization and Advanced Configuration Techniques.
- Veritas cluster for AIX/LINUX
- IBM PureFlex for Power systems
- Linux On Power (LX21)
- Power KVM (VX53)
- Red Hat Open Stack Cloud
- Flash System Technical Solutions
- Red Hat Certified Specialist in Ansible Automation
- Google Cloud
- Azure Cloud

- AWS cloud
- Terraform
- Azure DevOps
- RedHat OpenShift
- IBM Cloud

#### Achievements & Awards –

- IQVIA Impact Award
- Client Appreciations
- I got appreciated by many customers in HCL on my best and quality deliverables.
- I was the key member of the UNIX Problem Management team and won the customer award
- I awarded for successful resource in UNIX capacity management
- I was identified as the high-performance resource and awarded as “Best Performing Employee” for my tenure in IBM.
- I was key member of the HP Team (High Performance Team).
- I was key member of Four successful DR activities.
- Won Best performance award in “CMS Computers Limited”

#### Work Experience –

##### **IQVIA Inc, United States:**

<b>Duration</b>	Nov 2022-till now
<b>Role</b>	Azure Cloud Solutions Architect
<b>Technologies</b>	Azure Cloud and DevOps Architect & Data Engineer
<b>Responsibilities</b>	<ul style="list-style-type: none"> <li>• Azure Data Factory design and pipeline configuration for data ingestion</li> <li>• Self-hosted Integration Runtime configuration and repositories on premise for ingestion to the cloud</li> <li>• Configure Azure SQL database servers and integration</li> <li>• Configure linked services, data sets and pipeline template</li> <li>• Build release bundles with Json scripts and ARM template</li> <li>• Design and configure PowerShell script to deploy ADF</li> <li>• Configure the GitHub and DevOps repository to upload client packages.</li> <li>• Design and deploy Azure DevOps pipeline to automate the ADF deployment</li> <li>• Expertise in DC Consolidations and Cloud Data Migration;</li> </ul>

	<p>Platform Migration Strategy for End Users</p> <ul style="list-style-type: none"> <li>• Azure Security Center monitoring to address threats and resolve security vulnerabilities.</li> <li>• Developed strategy for cloud/virtualization migration and implementation best practices.</li> <li>• Designed and Setup Azure Landing Zone for Migrating Workloads for Globally distributed DC's</li> <li>• Cloud application development solutions (e.g. IaaS, PaaS), continuous integration technologies (e.g. Jenkins, Azure DevOps, Ansible, Azure ARM Templates)</li> </ul>
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### HCL America Inc, United States:

<b>Duration</b>	2013-2022
<b>Role</b>	Compute & Cloud Solutions Architect
<b>Technologies</b>	UNIX, VMware, Azure/AWS/GCP Cloud and DevOps
<b>Responsibilities</b>	<ul style="list-style-type: none"> <li>• Expert in DC Consolidations and Cloud Migration, with Platform Migrations Strategy and V2V P2V migrations.</li> <li>• Deep Understanding of cloud computing technologies across Windows and UNIX, with demonstrated.</li> <li>• Azure Core Platform: <b>Compute, Storage, Networking</b></li> <li>• Enable Identity &amp; Access Management using AD, Azure AD and Privilege Identity Management SSO/Federation, AD/Azure AD.</li> <li>• Azure Security Center monitoring to address threats and resolve security vulnerabilities.</li> <li>• Developed strategy for cloud/virtualization migration and implementation best practices.</li> <li>• Designed and Setup Azure Landing Zone for Migrating 500+ Workloads for Globally distributed DC's</li> <li>• Cloud application development solutions (e.g. IaaS, PaaS), continuous integration technologies (e.g. Jenkins, Azure DevOps, Ansible, Azure ARM Templates)</li> </ul>

	<ul style="list-style-type: none"> <li>• Automation of OS builds and Application Installation through Terraform</li> <li>• Docker Engine, Containers, GitHub, Docker Images, Docker Hub</li> <li>• Application migration from on-prem to Azure cloud</li> <li>• Interface with senior management to develop, refine, and execute the Cloud Computing strategy and roadmap.</li> <li>• Enable customers with Cloud strategy and advise customers on effective architectural &amp; implementation models for Private, Azure Public Cloud, Hybrid and Multi-Cloud scenario.</li> <li>• Experience in Architecting, Design, and Implementation of highly scalable, highly available, Cloud (IaaS, PaaS, SaaS) services and solutions for Private Cloud, Azure Public Cloud and Hybrid models.</li> <li>• Hands on experience in creating/building and deploying complex Cloud applications and infrastructure solutions in small, medium, and large enterprise environments.</li> <li>• Experience in Handling and Managing Customers from Banking, Retail, Consumer and Energy Verticals/Domain.</li> <li>• Hands on experience with the following service architectures: Microsoft Azure, Microsoft Azure Stack (on Premise Azure Cloud), Amazon Web Services (AWS), Microsoft Private Cloud, Service Now</li> <li>• , VMware.</li> <li>• Expert Knowledge on Cloud Native and Cloud Agnostic Technologies like Dockers, Containers and Infrastructure as Code (IaC).</li> <li>• Expert understanding of security concerns with various hosting configurations (dedicated, shared, cluster, cloud, virtualized).</li> </ul>
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#### **HCL Technologies–Singapore PTE LTD:**

<b>Duration</b>	2012-2013
<b>Role</b>	UNIX – Consultant
<b>Technologies</b>	UNIX/AIX/Linux/Windows and Virtualization
<b>Responsibilities</b>	<p>This project consists of Various IBM products like IBM AIX, IBM datacenter setup migration from P5/6 to P7(DC to DC).</p> <ul style="list-style-type: none"> <li>• Excellent analytical, planning, designing of setup Data Centre.</li> <li>• Spear-headed Data Centre migration in large environment.</li> <li>• Setup DC for dual HMC with 5 Managed Machines with 10 dual VIO and 100+ P7 LPARS.</li> </ul>

**IBM India Private Limited, India:**

<b>Duration</b>	2009-2012
<b>Role</b>	Subject Matter Expert - SME
<b>Technologies</b>	AIX, Linux, Power Virtualization
<b>Responsibilities</b>	<ul style="list-style-type: none"><li>• This project consists of Various IBM products like IBM AIX, IBM WEB sphere, MQ,DB2 Application and Various Models of IBM RS/6000 servers are involved</li><li>• Providing remote support for IBM AIX Operating system related issues for 6000+ AIX servers</li></ul>

**CMS Computers Limited, India**

<b>Duration</b>	2006-2009
<b>Role</b>	Associate Customer Support Engineer
<b>Technologies</b>	IBM AIX and Windows
<b>Responsibilities</b>	<ul style="list-style-type: none"><li>• Installing, configuring, and administering AIX ver 5.3 on RS/6000 Midrange P615/630 series servers.</li><li>• Installation of OS using New and Complete overwrite, Preservation, Migration installation.</li><li>• Device Management.</li><li>• Installation of OS patches, updating the maintenance levels when required.</li><li>• Software installation and maintenance.</li></ul>

### **ACERR INFOTEC, India**

<b>Duration</b>	2004-2006
<b>Role</b>	Customer Support Executive
<b>Technologies</b>	Windows
<b>Responsibilities</b>	<ul style="list-style-type: none"><li>• Installing of Microsoft licensed software Win95, Win98, Win2k, WinXp</li><li>• Assembling of systems with the Burn on test running.</li><li>• Marinating the warranty replacements of parts from the authorized vendors.</li><li>• Maintaining the offsite warranty &amp; non warranty system services.</li><li>• Maintaining stocks of the new Assembling machines.</li><li>• End user support</li></ul>

### **CORE SYSTEMS PVT.LTD, India**

<b>Duration</b>	2002-2004
<b>Role</b>	Filed Executive
<b>Technologies</b>	Windows
<b>Responsibilities</b>	<ul style="list-style-type: none"><li>• Installation of consumer product EDC (Electronic Data Captor Machine).</li><li>• Installation of consumer product EPABX</li><li>• Fault diagnosis, Testing, Support Telephonic service</li><li>• Assisted in Trouble Shooting the Hardware problems</li><li>• End user support.</li><li>• Handling systems related problems</li><li>• Study customer's new requirements and <b>informed</b> to relevant department</li><li>• Give Value addition Services during Maintenance.</li></ul>
<b>Personal Info –</b>	

Travelled – Being a part of Transition and Transformation team, I've travelled across the globe around 6 countries for official trips.

Active Visas –

1. Singapore S-Pass to 2017
2. Canada Work Permit to 2021
3. UK Business Visa up to July 2021.
4. US B1/B2 up to 2027.
5. South African Work Permit up to 2022.
6. **H1B Visa up to Nov 2025**

**Local Address** – 408 Sadie Avenue , Montgomery County , Heartfield

Township , Lansdale , PA 19446

Passport – S2825324 (2029).

Name	:	Madhavan
Father's Name	:	K. Babu
Date of birth	:	06-05-1984
Marital Status	:	Married
Languages Known	:	English, Tamil, Telugu
Extras	:	Playing Cricket

I hereby declare that all the above information given is true to the best of my knowledge and belief.

*Thanking you*

Dated: June 2025

(Madhava Babu)