Naval K Sarda

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# Professional Summary

**IT professional with 15+ years of experience** in IT operations, cloud migrations, and architecture, specializing in **Amazon Web Services (AWS)**. Adept at **designing, deploying, and managing scalable, highly available, and fault-tolerant cloud solutions** on AWS, with a strong background in **cloud infrastructure automation**, **DevOps practices**, and **security management**.

* **Expertise in AWS**: Proficient in selecting and implementing the right AWS services based on data, compute, database, and security requirements. Hands-on experience with core AWS services including **EC2, S3, RDS, VPC, VPC Security, IAM, KMS. Cloud Watch** (and many more) to build robust, cloud-native applications and infrastructure.
* **Cloud Architecture & Design**: Extensive experience in **architecting distributed systems and applications** on the AWS Cloud, ensuring that solutions are scalable, fault-tolerant, and cost-efficient. Provide **architectural guidance and oversight** throughout the project lifecycle, from initial requirements gathering to deployment.
* **Networking & Security**: Strong knowledge of **networking concepts** (IP addresses, DNS, TCP/IP), enabling effective design and management of **secure and reliable cloud infrastructures**. Deep understanding of **Identity and Access Management (IAM)** and **cybersecurity principles** to ensure secure cloud environments, data protection, and compliance with industry standards.
* **Cloud IAC and Automation:** **Terraform**, Ansible
* **Database Management**: Proficient in the setup, configuration, and management of **databases** such as **DB2** and **PostgreSQL** on AWS, ensuring high availability, disaster recovery, and cost-effective data storage solutions.
* **Collaboration & Leadership**: Proven success in **collaborating with both technical and non-technical teams** to **develop and implement cloud solutions** that align with business goals. Skilled in leading **technical discussions** and **adopting new technologies** and best practices to drive innovation and improve cloud infrastructure.
* **Disaster Recovery & Storage Solutions**: Experience designing and implementing **disaster recovery strategies** and working with **AWS storage solutions** (e.g., **S3, EBS, Glacier**) to ensure data availability, backup, and efficient storage management.
* **Red Hat Linux & Windows Expertise**: Hands-on experience with **Red Hat Linux** and **Windows servers** in cloud environments, optimizing performance, security, and system reliability.
* **ITIL & IT Operations**: In-depth experience with **ITIL processes**, including incident management, change management, and service request handling using **ticketing systems like Remedy** and **Service Now**. Expertise in **optimizing IT operations** for improved efficiency, incident resolution, and service delivery.

# Professional Experience:

# Luxoft USA INC Sep 2021 – Sep 2024

# AWS Cloud Solution Architect

* Led cloud migration initiatives, managing day-to-day tasks, tracking progress, and providing oversight for all teams involved. Successfully executed an end-to-end cloud migration, optimizing infrastructure, and reducing costs by 30% through strategic planning and resource management.
* AWS Certified Solutions Architect with expertise in designing, deploying, and managing scalable, highly available, and fault-tolerant systems on AWS, leveraging services like IAM, VPC, EC2, Security Groups, S3, Lambda, and others, while adhering to AWS best practices.
* Experience with ITIL processes, including managing service requests, incidents, and change management using Remedy and ServiceNow, ensuring smooth operational flow and service delivery.
* Deep knowledge of networking concepts such as IP addresses, DNS, and TCP/IP, enabling the design and management of secure, efficient, and scalable cloud infrastructure.
* Hands-on experience with databases such as Oracle, MSSQL, and PostgreSQL for database management, ensuring high availability, scalability, and performance within AWS environments.
* Identity and Access Management (IAM) expertise, ensuring the secure management of user access and roles, while implementing cybersecurity principles to safeguard cloud infrastructure.
* Extensive experience with Red Hat Linux and Windows servers, managing and optimizing system performance for cloud environments.
* Led the design and deployment of distributed systems and applications on the AWS Cloud, ensuring solutions are scalable, fault-tolerant, and cost-effective.
* Collaborated with both technical and non-technical teams, gathering requirements to define cloud solutions, and providing architectural guidance and oversight throughout the entire project lifecycle.
* Designed and implemented **Terraform-based IaC** solutions to provision cloud resources across AWS and Azure, reducing manual efforts by 80%.
* Monitored and resolved Terraform plan and apply errors, ensuring zero downtime during infrastructure updates.
* Experience with containerization and orchestration using Docker, Kubernetes (EKS), and ECS, deploying and managing containerized applications with auto-scaling and load balancing to optimize performance.
* Proficient in shell scripting, Bash, and Python, used for automation, job scheduling (via cron), and managing AWS resources and configurations.
* Managed disaster recovery (DR) environments in AWS, regularly conducting failover testing to ensure reliability and system readiness during emergencies.
* Monitored cloud infrastructure health using Cloud Watch, and Cloud Trail, implementing alerting and monitoring systems to detect and resolve issues before they impact service availability.
* Led the migration of multi-tier applications from on-premises environments to the AWS Cloud, using terraform, EC2, Route 53, S3, VPC, SQS, and SNS to ensure a smooth transition and optimized cloud architecture.
* Ensured continuous application availability and reliability by implementing Blue-Green deployment strategies, automating deployments to reduce downtime and ensure a seamless user experience.
* Collaborated closely with internal teams to define and implement the cloud migration process, ensuring a successful, secure, and efficient transition to AWS, meeting all technical and business requirements.

# HCL AMERICA INC Sep 2018 – Aug 2021

# Senior Cloud Technical Lead

* Delivered a Banking Application on a new private cloud solution (IBM PureApp machines), overseeing the entire cloud migration and modernization process to ensure a seamless transition and high availability.
* Architected, planned, and deployed cloud infrastructure for the migration of applications, ensuring scalability, reliability, and fault tolerance in the new cloud environment.
* Key player in cloud transition and deployment, providing architectural guidance and support throughout the migration lifecycle, from initial planning to post-deployment support, ensuring smooth client handover post-migration.
* Designed and set up web servers, middleware (WebSphere), and application deployment processes, ensuring optimal performance and availability in the new cloud environment.
* Worked closely with technical and non-technical teams (including Development, Business Analysts, Production Support, and Operations) to assess current infrastructure, identify migration requirements, and ensure smooth transition and successful deployment.
* Implemented cloud migration best practices, focusing on operational and process optimization, streamlining workflows, and improving overall efficiency of the cloud migration process.
* Utilized ITIL processes extensively, including ticketing systems (Remedy and ServiceNow), to manage incidents, service requests, and changes during cloud migration, ensuring efficient issue resolution and service continuity.
* Applied networking concepts (IP addresses, DNS, TCP/IP) to design and optimize cloud infrastructure, ensuring proper configuration of the private cloud environment and seamless connectivity across systems.
* Experience in database management, with hands-on knowledge of Oracle, MSSQL, and PostgreSQL, managing database migrations, ensuring data integrity, and optimizing database performance in the cloud.
* Led the implementation of identity and access management (IAM) solutions, ensuring secure and controlled access to cloud resources, and ensuring compliance with cybersecurity principles.
* Expertise in Red Hat Linux and Windows servers, configuring and optimizing both operating systems in the cloud environment for seamless operation, high availability, and security.
* Collaborated with development teams to define cloud solutions, gathering requirements, assessing existing infrastructure, and recommending necessary modifications to align with cloud best practices and security standards.
* Provided architectural guidance and oversight throughout the entire cloud migration process, from solution design to deployment, ensuring that all solutions were scalable, highly available, and fault-tolerant.
* Led technical discussions with internal teams and stakeholders to adopt new technologies and practices, ensuring that cloud infrastructure aligned with business goals and provided robust, secure solutions.
* Ensured that all cloud solutions and infrastructures aligned with TIERS' security standards, integrating best practices to secure applications, databases, and cloud resources.
* Hands-on experience with automation and configuration management tools, including Ansible for configuration management and Jenkins for build and automation, enhancing operational efficiency during the cloud migration and ongoing maintenance phases.
* Provided 24/7 production support for highly available banking mortgage applications, addressing and resolving any application-related issues promptly to ensure continuous service availability
* Performed technical and functional analysis of the banking application, recommending optimizations and solutions to improve performance, reliability, and scalability in the cloud environment.
* Actively engaged in issue tracking and ticket management via Remedy and ServiceNow, working closely with support teams to resolve incidents, ensuring seamless application performance and uptime.

# Celeriti FinTech- India & USA (CFT) Sep 2016 – Sep 2018

# System Program Analyst & Cloud Support

* Led the migration of on-premises applications to IBM Cloud Pak (IBM PureApp), designing and deploying highly available, scalable, and fault-tolerant cloud architectures, ensuring seamless transition and operational efficiency.
* Played a pivotal role in cloud infrastructure architecture, including planning, designing, and overseeing the transition and deployment of applications, ensuring the solution met performance, security, and scalability requirements on the cloud platform.
* Provided architectural guidance and oversight throughout the cloud migration project lifecycle, ensuring that best practices were followed and solutions were designed for long-term sustainability and performance.
* Collaborated with both technical and non-technical teams (Development, Business Analysts, Production Support, and Operations) to define and implement robust cloud solutions, facilitating smooth communication and alignment across all teams.
* Selected appropriate AWS services based on the project's data, compute, database, and security requirements, ensuring optimal resource utilization and cost efficiency.
* Hands-on experience in designing and deploying distributed systems on the AWS Cloud, including the configuration and management of web servers, middleware (WebSphere), and application deployments to ensure high availability and fault tolerance.
* Identified and gathered requirements to define and implement cloud solutions, assessing existing infrastructure, recommending modifications, and ensuring alignment with AWS best practices for cloud architecture.
* Ensured solutions and infrastructure met TIERS' security standards, leveraging IAM, encryption, and other cloud security best practices to secure applications, databases, and user access across the AWS environment.
* Managed and optimized cloud migration operations, leveraging tools such as Ansible for automating infrastructure provisioning and deployment, improving efficiency and reducing human error.
* Conducted technical and functional analysis of banking applications, providing recommendations for modernization and optimizing the applications for the cloud, ensuring high performance and scalability post-migration.
* Worked closely with teams across development, business analysis, production support, and operations to ensure a successful migration and handover, facilitating smooth post-deployment support and operational continuity.
* Applied networking concepts such as IP addressing, DNS, and TCP/IP to configure cloud resources, ensuring seamless integration and optimal performance across systems.
* Knowledgeable in database management (Oracle, MSSQL, PostgreSQL), ensuring the proper migration, configuration, and optimization of databases on the cloud platform, and ensuring that cloud-based databases met performance and security requirements.
* Extensive experience working with ITIL processes and ticketing systems like Remedy and ServiceNow, managing incidents, service requests, and change management during the cloud migration process to ensure service continuity.
* Led technical and design discussions, driving the adoption of new cloud technologies and best practices, ensuring that cloud solutions were innovative, secure, and aligned with business needs.
* Developed and implemented backup and storage solutions using AWS services like S3, Glacier, and EBS, ensuring data availability, disaster recovery readiness, and cost optimization for cloud storage needs.

**CSC India Pvt Ltd. Oct 2007- Mar 2016**

# Senior Software Engineer

* Designed and deployed scalable, highly available, and fault-tolerant systems on AWS, ensuring systems are architected for high performance, resilience, and business continuity across UAT and production environments.
* Provided architectural guidance and oversight throughout the cloud migration and system deployment lifecycle, ensuring the solutions were aligned with AWS best practices for security, cost efficiency, and operational performance.
* Collaborated with cross-functional teams (technical, business analysts, developers, and operations) to design and implement robust cloud solutions, gathering requirements and ensuring alignment with business goals.
* Designed and deployed distributed systems on the AWS Cloud, selecting and integrating appropriate AWS services based on data, compute, database, and security requirements. Ensured these systems met both current and future needs for scalability, reliability, and security.
* Assessed and optimized existing infrastructure, recommending and implementing changes as needed to improve performance, reduce costs, and enhance security for AWS-hosted systems.
* Led discussions on cloud architecture and new technologies, educating teams on best practices for AWS cloud solutions, database optimization, and security, while ensuring that all solutions aligned with TIERS' security standards.
* Provided hands-on expertise in Red Hat Linux and Windows environments, optimizing system performance and ensuring compatibility with cloud platforms, with a strong focus on continuous monitoring and improvement.
* Coordinated disaster recovery (DR) activities and performed weekly support tasks, ensuring high availability and continuity of service. Led regular testing of DR plans and provided support during critical incidents to minimize downtime.
* Monitored and analyzed server performance metrics, including server load, CPU utilization, disk usage, and memory usage, to ensure optimal system health and proactive issue resolution. Implemented automated alerts to detect and resolve issues promptly.
* Optimized SQL queries and database performance by creating indexes, monitoring database growth, and executing routine tasks such as reorganization and statistics updates. Ensured high availability and efficient performance for mission-critical databases.
* Managed and optimized DB2 environments, including installation, patching, and DB2 database movement. Utilized tools such as db2advise, db2top, and db2pd to enhance database performance and availability.
* Managed database jobs and automation, utilizing tools like crontab for job scheduling, implementing monitoring and alerting systems for job failures, and resolving issues promptly to ensure consistent database operations.
* Conducted regular database maintenance and housekeeping tasks, including data purging, optimizing database storage, and performing DDL, DML, and DCL SQL operations to ensure system integrity and performance.
* Created and maintained user policies and access control in line with security standards, ensuring that users had the appropriate permissions for system access, in compliance with organizational and regulatory requirements.
* Utilized ITIL processes for managing incidents, service requests, and changes, using Remedy and ServiceNow for ticket tracking, prioritizing incidents, and coordinating with teams for issue resolution.
* Performed routine system and database health checks, scanned logs for potential issues, triaged and managed tickets, and handled incident management to ensure smooth operations.
* Developed and maintained detailed documentation on processes, policies, and database management practices, ensuring transparency and compliance across all team activities.
* Implemented effective database growth monitoring and reporting, working closely with teams to ensure timely actions on capacity planning and preventing potential database performance bottlenecks.

# ST Infosys India Pvt Ltd. Aug 2006- Sep 2007

# Software Engineer

* 24/7 Support: Provided round-the-clock support for production (PROD), user acceptance testing (UAT), and development (DEV) environments, ensuring application and Db2 database availability, performance, and reliability.
* Script Deployment: Deployed and managed scripts across UAT and PROD environments, ensuring that all application requirements and updates were successfully implemented.
* User Policy Creation: Created and maintained user access policies in accordance with security standards, ensuring proper role-based access controls for the application and databases.
* Daily Reporting & Documentation: Generated daily reports documenting system health, performance metrics, incident management, and resolution statuses. Ensured that all processes were well-documented for audit and compliance purposes.
* Log Monitoring & Issue Resolution: Continuously scanned system and application logs for potential issues, performed root cause analysis, triaged tickets, and coordinated with cross-functional teams for timely bug fixes and incident resolution.
* SQL Execution & Optimization: Executed DDL, DML, and DCL SQL statements for database maintenance and management tasks. Optimized queries for performance improvements and worked on database growth monitoring and tuning.
* Database Software Knowledge: Utilized expertise in database systems such as Oracle, MSSQL, and PostgreSQL for managing complex database environments, including troubleshooting, performance optimization, and patching.
* Ticket Management & Incident Handling: Followed ITIL best practices in handling service requests and incidents through Remedy and ServiceNow ticketing systems, ensuring issues were logged, tracked, and resolved efficiently.
* Network Management: Applied networking concepts such as IP addressing, DNS, and TCP/IP to troubleshoot and resolve connectivity issues across the application and database infrastructure.
* Database Maintenance: Performed regular database maintenance activities, including patching, data purging, reorganization (REORG), backups, and restores using Db2 utilities (db2advise, db2top, db2pd, and Runstats).

**EDUCATION & CERTIFICATIONS:**

* Bachelor of Technology (Computer Sciences and Engg, CSE) From University of Rajasthan, Rajasthan India –May 2006

**Certification**

AWS Certified Solution Architecture Associates

IBM DB2 Certified Database Associate (V8 and V9)