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**Sachchida (Sachi) N Ojha email:** snojha@gmail.com

Principal Systems architect/ Tech Lead Phone (Cell): 571.426.9741

Active Security Clearance: **IRS MBI (Valid until 2025)** Status: **US Citizenship**

LinkedIn Profile: <https://www.linkedin.com/in/sachchidaojha/> GitHub: <https://github.com/snojha>

Certification: **AWS Certified Solution Architect – Associate** Website: [www.greenplumdba.com](http://www.greenplumdba.com/)

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# Summary of Experience:

* Demonstrated industry leadership in the fields of cloud analytics, MPP databases (Tanzu Greenplum, Teradata and Redshift), data warehousing and data sciences
* Extensive hands-on experience in leading large-scale full-cycle MPP enterprise data warehousing (EDW) projects
* Customer facing skills to represent MPP databases well within the customer’s environment and drive discussions with senior personnel regarding trade-offs, best practices, project management and risk mitigation
* Demonstrated ability to think strategically about business, product, and technical challenges in an enterprise environment
* Knowledge of new and emerging cloud architecture and engineering principles, techniques, and terminology as they relate to the development of design and construction documents in the area of building systems and structures.
* Experience in CI/CD tools like Gitlab, Jenkins, EKS, ECS
* Reviews of work performed within organization to ensure consistency of approach, technical correctness, and equitable treatment of customers and stakeholders.
* Expertise in system administration of various flavors of Linux (RHEL, Ubuntu, CentOS, Fedora)
* Expertise in Data center migration, Cross platform system/database migration, on-premises Data center to cloud
* Provides risk assessments of existing applications and proposes strategic initiatives that balance technology goals with business objectives. Prioritizes initiatives based on risk assessments and ability to maximize investments.

**Top Skills:**

* Greenplum (MPP database), PostgreSQL, Oracle, Redshift, Unix, AWS Cloud Infrastructure
* GitLab
* Terraform
* Jenkins
* Cloud networking experience (Amazon VPC, Transit Gateway, advanced NACL/Security Group knowledge)
* Experience deploying and running containerized applications in the cloud (Gitlab, Terraform, AWS Fargate, EKS, ECS, Maven)
* Kubernetes design, deployment, operations, and sustainment
* In-depth knowledge of Kubernetes RBAC
* Knowledge of core AWS computer services (EC2, Glue, ECS, Elastic Beanstalk, Elastic load balancing, Autoscaling groups)
* Knowledge of cloud infrastructure/application-level monitoring (CloudWatch, and Open Source APM offerings)
* Experience designing, deploying, and operating fault-tolerant, multi-region applications in AWS
* Experience using project management suites to manage Agile/Scrum projects

**Specialties:**

Passion for technology and software, with a focus on data and analytics, Effective communication skills, Analytical problem solving and troubleshooting skills, Teamwork and partnership skills, Demonstrate tolerance of ambiguity and self-motivation. Positive thinking, Planning, prioritizing jobs according to the customer satisfaction, producing deliverable on time, team player is some of my basic qualities.

**Current Project:**

Employer: **IRS – Full Time Federal GS15 Employee**

**(Supporting IRS Modernization Projects – Enterprise Common Services – Cloud Infrastructure and API calls)**

Duration: Dec 2023 to current

Role: Technical Lead (**Enterprise Common Services**)/ Principal Systems Architect

**Roles and Responsibilities:** Managing and maintaining the cloud infrastructure and the associated APIs used by IRS to provide common services across various applications and teams. Responsibilities includes but not limited to,

**Cloud Infrastructure Management:**

* 1. Design, deploy, and manage the cloud infrastructure on AWS, ensuring scalability, reliability, and security. Set up and configure virtual machines, networking, storage, and other cloud resources as needed.

**API Management:**

* 1. Develop and maintain APIs that provide common services to various applications and teams within the organization. Ensure that APIs are well-documented, versioned, and follow best practices for security and performance.

**Security and Compliance:**

* 1. Implement security best practices to protect cloud infrastructure and APIs against potential threats. Stay up-to-date with security standards and compliance requirements relevant to the organization's industry.

**Performance Optimization:**

* 1. Monitor the performance of cloud resources and APIs to identify bottlenecks and optimize them for efficiency. Implement caching, load balancing, and other techniques to enhance performance.

**Automation:**

* 1. Automate routine tasks, such as provisioning and scaling resources, using infrastructure-as-code (IAC) and automation scripts. Implement continuous integration and continuous deployment (CI/CD) pipelines (Gitlab, EKS) for infrastructure and API changes.

**Monitoring and Logging:**

* 1. Set up monitoring and logging solutions to track the health and performance of the cloud infrastructure and APIs. Respond to incidents and troubleshoot issues promptly.

**Cost Management:**

* 1. Monitor and control cloud infrastructure costs by optimizing resource usage and leveraging cost-effective services. Implement budgeting and cost allocation strategies.

**Collaboration:**

* 1. Collaborate with development teams and other stakeholders to understand their requirements for common services and APIs. Provide support and guidance to application teams integrating with the provided APIs.

**Documentation:**

* 1. Maintain documentation for the cloud infrastructure, APIs, and related processes. Ensure that documentation is easily accessible to relevant teams.

**Disaster Recovery and Business Continuity:**

* 1. Develop and test disaster recovery and business continuity plans for cloud infrastructure and critical APIs.

**Scalability and Capacity Planning:**

* 1. Plan for future growth by assessing resource requirements and scalability needs. Scale infrastructure and APIs as necessary to accommodate increased demand.

**Vendor Management:**

* 1. Manage relationships with cloud service providers and third-party vendors. Evaluate and recommend new services or features that could benefit the organization.

**Compliance and Governance:**

* 1. Ensure that cloud infrastructure and APIs adhere to the organization's compliance and governance policies.

**Training and Knowledge Sharing:**

* 1. Stay updated with the latest cloud technologies and share knowledge with the team and organization.

**Previous Project:**

Employer: **Peraton – Full Time (supporting IRS Modernization – Big data analytics project)**

Duration: March 2022 to Dec 2023 (**1 year, 9 Months**)

Role: Systems architect Principal Technical Specialist

Client: IRS

## Work and Responsibilities: Responsibilities includes but not limited to,

* Integrate and synchronize software requirements for Release Trains to ensure all stakeholders are aware of development efforts and that delivered capability satisfies dependencies and cross-program functionality where required.
* Performed all Agile activities to synchronize and monitor the status of capability backlogs, prioritization, and successful deployments.
* Ensure software developers comply with government record creation and management policies for all entries in JIRA.
* Worked at the Management Team level and helps provide guidance, direction and support to the Release Management Team.
* Provided system architecture across the Solution Release Train in accordance with the Government’s System Architect’s guidance.
* Collaborate with Business Development, Capture, and Engineering professionals to develop and refine resilient and secure solutions for IRS tax data processing and information management capabilities.
* Lead the creation of mission and technology roadmaps informed by a deep understanding of existing infrastructure, customer mission needs, and rapidly advancing technologies.
* Support front end of the business/capture initiatives by leading the technical strategy and solution development and work with Engineering to align capabilities to meet the strategy and roadmaps.
* Evaluate external products and services against customer needs and formulate build / buy recommendations, and partner alternatives in areas of strategic interest to the business.
* Track technology and mission trends and leverage this knowledge to formulate innovative solutions that solve problems identified by IRS customers.
* Experience designing & deployment of solutions micro services architectures for orchestration, service discovery, and load balancing.
* Designing strategy for smooth transitioning of inter-related database projects
* System monitoring using enterprise E2E and Splunk
* Federal Security compliance (HIPPA, FISMA, 508) test and support
* CVE vulnerability scans (Nessus, Tripwire and Guardium) and remediations supports
* Converted Analytical queries written on Oracle to support Greenplum database
* Worked with Tableau/Power BI and Informatica team to move them to use Greenplum database
* New client project planning, gathering requirements, architecture design and development support
* Routine database maintenance, proactive monitoring, partitioning and tuning using home grown scripts
* TAM/primary POC (point of contact) for 25+ IRS client projects using Greenplum platform
* For effective and efficient deployment, build and keep a checklist which defines required deliverable at each stage
* Coordinating with multiple federal contracting agencies for various inter-related activities
* Creating SOP’s, BEST PRACTICES, Do’s and Don’ts, Lesson Learned documents for MPP architecture and educating junior team members

**Previous Project:**

Employer: **Intel Corporation (Full Time)**

Duration: Jan 2022 to March 2022

Role: Cloud Analytics – Senior Software Development Engineer

## Work and Responsibilities: Responsibilities includes but not limited to,

* Develops applications that work in and on industry hybrid cloud environments using capabilities and frameworks from internal and external cloud providers
* Develops and coordinates cloud architecture over various areas, including application development, identity and access management, network and data management, and security
* Defines the initial DevSecOps solution and links it to the cloud platform.
* Utilizes DevOps processes, automation, culture, and target platforms
* Leverages expertise in cloud platforms including Amazon Web Services, Google Cloud, Azure, building and designing web services in the cloud, orchestrating and automating cloud-based platforms, as well as frontend development of the user interface that typically run over various form factors including mobile and PC
* Utilizes HTML, JavaScript libraries, responsive, and AWS frameworks
* Work platform includes Teradata, Hana, Ab Initio, Power BI, Jira, Jira Align, GitHub, AWS Cloud(S3), Azure Cloud

Employer: **CSC**/**DellEMC/VMware/Peraton – Consultant (supporting IRS Modernization – Big data analytics project)**

Duration: July 2012 to Jan 2022 **(9 years, 7 months)**

Role: Lead Consultant (**SME Greenplum**)

Client: IRS (**Active MBI clearance, expires 3/2025**)

## Work and Responsibilities: Responsibilities includes but not limited to,

* On-site appliance installation (DCA and Data Domain), configuration, and integration support
* Migrating data from Oracle, IBM DB2 to Greenplum using Greenplum gpload utility and GPFDIST protocol
* Designing strategy for smooth transitioning of inter-related database projects
* System monitoring using enterprise E2E and Splunk
* Federal Security compliance (HIPPA, FISMA, 508) test and support
* CVE vulnerability scans (Nessus, Tripwire and Guardium) and remediations supports
* Trained 20+ Oracle DBAs to work in PostgreSQL/Greenplum database environment
* Converted Analytical queries written on Oracle to support Greenplum database
* Worked with Tableau/Power BI and Informatica team to move them to use Greenplum database
* New client project planning, gathering requirements, architecture design and development support
* Routine database maintenance, proactive monitoring, partitioning and tuning using home grown scripts
* **TAM/primary POC (point of contact) for 25+ IRS client projects using Greenplum platform**
* For effective and efficient deployment, build and keep a checklist which defines required deliverable at each stage
* Coordinating with multiple federal contracting agencies for various inter-related activities
* Creating SOP’s, BEST PRACTICES, Do’s and Don’ts, Lesson Learned documents for MPP architecture and educating junior team members
* Discuss about organization projected growth and plan for infrastructure upgrades/changes
* Implement New Technologies to improve the exiting process
* Educating Sr level management on efficiency and cost saving by migrating to the Cloud
* Comparing different cloud platforms (AWS, Azure and GCP) for cost/benefit analysis
* Created a library of 500 functions (FaaS) for DBAs and Govt Employees to look and perform

**Past Employers/clients summary:**

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| **Employer** | **Duration** | **Role** | **Client(s)/Domain** |
| DellEMC/ VMware **USA (IRS Client)** | **July 2012-Jan 2022** | Lead MPP Database Consultant | **IRS (Govt/Financial)** |
| Technology Ventures LLC **USA** | Aug 2011-July 2012 | Senior FAA Engagement Application Database Administrator | Fannie Mae (Mortgage) |
| Arbinet Inc. **USA** | June 2010-Aug 2011 | Lead Oracle/PostgreSQL DBA/Architect | **FTE (Telecom Startup)** |
| RN Solutions Inc. **USA** | Jan 2010-June 2010 | Lead Database Consultant | FDA/CFSAN/OMS (Govt /Healthcare) |
| Atlas Software Technologies Inc. **USA** | **Jan 2003-Jan 2010** | Lead database architect | CMS (Govt), Secure Elements (Technology Startup), Sun Microsystems (Technology) |
| Ntechra Systems Inc. **USA** | Jan 2001-Jan 2003 | Lead database architect/DBA | **FTE (Technology Startup)** |
| Jbas Systems Inc. **USA** | Feb 2000-Dec 2000 | Sr. Oracle DBA | Vasona Healthcare, Maxix research (Insurance) |
| National Informatics Center, Ministry of IT Government of **India** | Feb 1997-Feb 2000 | Scientist/ District Informatics Officer/ OSD | Treasuries, District Courts, High Courts and Supreme Courts of India (Govt) |
| Hindalco Industries Ltd, **India** | **July 1992-Feb 1997** | Application Programmer | **FTE (Heavy Materials)** |

**Education and Training:**

* AWS Certified Cloud Practitioner
* AWS Certified Systems Architect (Associate)
* Academy Accreditation - Databricks Lakehouse Fundamentals
* Master’s degree in Computer Science and Applications (MCA) from NIT Allahabad (Graduation Year: 1992)
* In-house training on Amazon AWS, Google cloud (GCP), Microsoft cloud (Azure), MPP databases (Pivotal Greenplum and Amazon Redshift), NO-SQL database amazon DynamoDB, PostgreSQL, Splunk, Snowflake, Informatica, Tableau and Power BI
* Designed and developed database web portals

**Status and Active Security Clearance:**

* **US Citizenship**
* **Active MBI for IRS (expires in 3/23/2025)**