**Overview**

Highly experienced Database Solutions Architect (SA) and Database Administrator (DBA) with over two decades of high-quality enterprise consulting expertise with focus on database technology.

Experience with in-depth interaction with hundreds of clients across a diverse and broad business spectrum with a highly diverse audience – from C-level executives and end users to hands on engineers.  Strong capabilities in multifaceted roles, including pre-sales and post-sales technical consulting in database technology. Key member of services sales teams and instrumental in closing services sales by providing valuable support as a subject matter expert (SME) and trusted advisor.

Extensive experience in planning, design, implementation, and operational turnover of highly secure, robust, and maximally available database driven infrastructure solutions on-premises and in the cloud.

Hands on experience in database installation, administration, configuration, development & production support, upgrades, patches, database performance tuning, database backup and recovery, database disaster recovery, database high availability, database space management, database security, database cloning, database migration and shell scripting.

**Current Technology Skills:**

* Familiarity, knowledge, and exposure to exposure to best practices in migrating, hosting, managing, and maintaining databases in the cloud using OCI, AWS, and Azure.
* Infrastructure Deployment and Administration for database driven applications on bare metal, virtualization platforms and on Private & Public Clouds.
* Project Management experience using Waterfall, Agile and Iterative processes.
* Familiarity, understanding and exposure to tools like Informatica, Cognos, Business Objects, Power BI, Tableau, etc.
* Familiarity with Industry best practices in software and solutions development.
* Strong written and verbal communication skills.
* Oracle Cross Platform Database Migration & Consolidation (From Sun Solaris, Aix, HP-UX to Red Hat Linux and Oracle OEL) and other databases. Migration to on-premises and cloud.
* Oracle database (OLTP & DW) performance tuning & troubleshooting.
* Oracle RAC, Oracle ASM, Oracle Dataguard.
* Oracle Advanced Data Security – TDE, TLS, Data Masking, Auditing, Oracle Audit Vault, Oracle Key Vault.
* Oracle database migration using Quest/Dell – Shareplex and Oracle GoldenGate.

**CERTIFICATIONS: Oracle Certified Professional-OCP**

**CompTIA + CE Security + (Obtained 2019 & CE refreshed in 2022)**

**CITIZENSHIP: UNITED STATES CITIZEN**

**CURRENT CLEARANCE - TOP SECRET**

**LINKEDIN:** [**linkedin.com/in/malayappan**](file:///J%3A%5C%281%29%20RAMESH%20RESUMES%20%26%20PROFILES%5Cwww.linkedin.com%5Cin%5Cmalayappan)

**WORK EXPERIENCE**

**Contractor – JULY/2020 – JULY/2022**

**Staffing Agency: Global Connections to Employment [GCE]**

**Client: US Department of Defense DHRA-DMDC**

**Senior Enterprise Database Administrator**

* **Performed database design of database objects such as tables, packages, procedures, indexes, triggers, functions, constraints, and sequences. Performed, schema design, and database structural optimization.**
* **Administration for several medium (100's of GB to large-sized databases (several terabytes).**
* **Responsible for administration tasks such as installing, maintaining, monitoring, recovering, rebuilding, upgrading, patching and performance tuning for several medium (100's of GB to large-sized databases (several terabytes).**
* **Developed, implemented, administered, and maintained policies and procedures for database security and integrity.**
* **Resolved database performance and capacity issues, and replication and other distributed data issues.**
* **Provided analysis and performance tuning for PLSQL & SQL queries for databases.**
* **Developed and executed unit test plans, documented results, and reviewed them with the Quality Assurance teams responsible for integrated testing.**
* **Provided support for database back up, restoration and disaster recovery using SYMMDS & Dataguard.**
* **Created and updated technical documentation in support of new development, upgrades, and enhancements.**
* **Provided On-Call incident support and production support to client as part of a 24/7 DBA team.**
* **Supported the preparation of proposals, business plans, standard process documentation and other documents related to the government contract.**
* **Provided database migration assistance with requirements gathering, preparation, planning and handoff to the deployment team.**

**MEDICAL LEAVE OF ABSENCE: MAY/2020 TO JULY/2020**

**Client: US Army – US Department of Defense – Defense Language Institute Foreign Language Center [DLIFLC]**

**Senior Database Administrator & Datawarehouse Architect**

**Contractor – AUGUST/2019 – MAY/2020**

**Staffing Agencies: 22nd Century Technologies Inc (AUG/2019 TO OCT/2019**

**& World Vision Technologies (OCT/2019 TO MAY/2020)**

* Technical SME and lead SQL Server database solutions architect for organizational initiatives involving business process automation – on-premises and the Azure cloud.
* Understand existing technical landscape and drive architecture and solution discussion to expand the latest SQL Server database version footprint.
* Translate business requirement into architecture and solution document based on industry best practices.
* Collaborate and work with cross-functional business and IT teams for solution design and implementation of new capabilities.
* Lead architect for Data Modeling, Schema Design, ETL Design and database upgrade and migration for a new data warehouse,
* Responsible for ensuring that databases met the requirements and commitments to defense infrastructure security compliance.

**MEDICAL LEAVE OF ABSENCE: MARCH/2019 TO AUGUST/2019**

**BIAS CORPORATION, MARCH/2018 TO MARCH/2019**

**Senior Database Security Solutions Architect**

* Database Solutions Architect providing pre-sales and post-sales consulting expertise for various clients across the USA, utilizing Oracle Advanced Security solutions.
* Sought out improvements and innovations to provide improved data security and reporting, eliminate redundancies, and provide better data protection, data movement, methods, and tools.
* Develop and continually strategies and architectural objectives for collecting, storing, and controlling access to corporate data.
* Provided consulting expertise for the planning, design, implementation and production rollout of Oracle Key Vault & Oracle Audit Vault for enterprise clients. Performed hands on implementation.

**Contractor – AUGUST/2017 - MARCH/2018**

**Staffing Agency: Advantis Global Inc.**

**Client: Apple Inc.**

**Senior Database Security Architect**

* Provide database security consulting for privileged account management and Oracle Identity & Access Management solutions.
* Utilize Oracle’s Privileged Account Manager (OPAM) and other components of the Oracle Identity & Access Management Suite for establishing a robust database security infrastructure.
* Design upgrade path for Oracle’s Identity & Access Management Suite from 10G to 11G and beyond to the Oracle Cloud.
* Perform JAVA coding for OPAM plug-in interface with REST API in a Fusion Middleware/WebLogic driven environment.

**Contractor - AUGUST 2016 – AUGUST 2017**

**Staffing Agency: DMI Inc.**

**Clients: Defense Manpower Data Center (DMDC) & Army Analytics Group (AAG) – United States Department of Defense.**

**Senior Oracle Database Architect & DBA - (Database Security and Database Systems)**

* Provide Core Oracle & Microsoft SQL Server database administration, management, information assurance and security compliance services for United States Army (SFO Bay Area, California).
* Implement, Maintain & Assure database security for over 250+ database instances.
* Identify, Mitigate & Eliminate database security vulnerabilities. Perform Security Technical Implementation Guide (STIG) audits and mitigations for vulnerabilities found in Oracle databases, SQLServer databases & RHEL Operating System as required by the Defense Information Systems Agency (DISA).
* Create and maintain databases required for development, testing, education, and production usage.
* Perform database migration and upgrades. Perform capacity planning required to create and maintain the databases. Work closely with system administration staff. Perform ongoing tuning of database instances.
* Plan and implement backup and recovery of databases. Perform database re-organizations as required to assist performance and ensure maximum uptime of the database.
* Establish standards to ensure that all database interactive application design and code is produced with proper integrity, security and performance.
* Perform code reviews and write automation code for database activities

**DELL SERVICES, JULY 2000 to JULY 2016 - (16 YEARS)**

**Senior Database Solutions Architect**

**Corporate Consultant for direct clients of DELL Inc.**

* Consulted with over 100 clients over 16 Years across USA and Canada.
* Broad spectrum of clients – Fortune 500/100, Educational, Government (Local, State & Federal), Defense Sector, Small & Medium Business.
* Support sales teams with subject matter expertise, requirements gathering and analysis, conduct workshops, make technical presentations, and provide support throughout the pre-sales and post-sales engagements.
* Extensive On-Site and Off-Site Hands-On Engagements.
* Architect, strategize, design, deploy, execute, and maintain enterprise, mission critical databases.
* Provide database migration consulting for complex cross platform, cross database multi-terabyte migrations on-premises and public & private clouds.
* Provide consulting expertise for advanced database security and backup & recovery utilizing inbuilt database tools and third-party tools.
* Provide expert consultation for the use of technologies such as DELL/Quest Shareplex and Oracle GoldenGate and native Oracle tools such as XPTTS, data pump etc.
* Provide on-site and remote consulting for database administration, monitoring, management & troubleshooting for multiple enterprise level clients.
* Hands on technical Lead for several projects involving database migration and upgrades. Mentor, train and lead technical teams distributed globally.
* Perform installation, administration, and performance tuning of Microsoft SQLServer 2000 and 2005 databases.
* Architected, Configured, implemented, and managed Oracle RAC & ASM on Red hat Linux and OEL Linux on Oracle 10G, 11G and 12C.
* Provide expert consulting expertise for database infrastructure assessments of large and complex database driven IT installations. Perform extensive data-warehouse tuning.
* Conduct Customer Whiteboard Sessions and technical workshops onsite. Make onsite and virtual presentations via teleconference sessions.
* Conduct onsite workshops and presentations at customer sites & assist with technical presales. Extensive interaction with IT support staff, end users and C- level executives.
* Customize solutions for clients in need of cloud and database driven infrastructure and assist with strategic vision, planning, design, and implementation.
* Provide in-depth subject matter expertise to sales and marketing teams with technical assistance and subject matter expertise.

**NEUVIS INC., JANUARY/2000 – JULY/2000**

Senior Software Engineer

* Plan, design and implement Oracle databases in Windows and Sun Solaris environments. Assist software development teams on various technical aspects of Oracle DBMS such as the construction of PL/SQL stored procedures and packages, Oracle - SQL code generation and database/application performance tuning.
* Provide consulting expertise for database deployment in production environments, plan and implement backup and recovery strategies, assist in strategies for database performance tuning and troubleshooting.
* Manage the Oracle database environment for software development and deployment teams for the entire software development lifecycle from development to testing to deployment.
* Provide consulting expertise for deployment of Microsoft SQL Server 7.0 & Microsoft SQL Server 2000 databases in the Windows NT 4 & Windows 2000 Server environments.

**PRICELINE INC., JULY/1999 – DECEMBER/1999**

**Senior Software Engineer**

* Provide database expertise to software development teams on various technical aspects of the Oracle DBMS such as writing stored procedures and triggers for extraction, transformation and loading data from production Oracle databases into decision support Oracle databases for reporting and analyses to company management.
* Provide Oracle database administration support for an Oracle 7.3 database in a Windows NT 4.0 environment. Provided on call technical support for scheduled database related batch jobs during nights and weekends.
* Specified, designed, implemented, tested, and maintained components and applications within a three-tiered Windows NT transactional architecture, using leading edge and emerging Microsoft technologies to support a Web-based e-commerce environment.
* Software technical lead for development projects from specification, through data modeling, design, coding, and debugging as well as unit testing at both component and system integration level.

**RADNET INC., JANUARY/1999 – JUNE/1999**

**Senior Consultant**

* Responsible for defining and translating customer requirements into technical requirements through implementation using Rapid Application Development.
* Perform requirements gathering, project estimates, resource requirements, schedules and work plans.
* Build complex custom solutions, utilizing both Radnet technologies and other web development technologies such as JavaScript and Java.

**POWERNET INTERNATIONAL INC., JUNE 1997 – DECEMBER 1998: (18 MONTHS)**

##### Senior Technologies Specialist

Clients: Merrill Lynch Inc., Avmed Health Care Plan, Cambridge Technology Partners, Southern Wine and Spirits, Miami, FL

* Architect, Design and develop a data-warehouse for the group employee Services of Merrill Lynch. Build a Proof of Concept (POC) system that included an Oracle 8 database, Brio Broadcast Server and On Demand server, UNIX and Windows NT 4.0. Designed preliminary reports using Brio designer.
* Participate in the project scoping process involving team building, requirement analysis and data discovery. Developed data models and designed database objects and report structures using extensive interaction with users. Design a data model utilizing Power designer 6.0.
* Design, develop and implement the data storage component of a complete Internet solution for Health Care management using Oracle 8.
* Perform database administration, layout design, capacity planning, installation and configuration, sizing of tables and indexes for performance, implementation, database and application tuning. Perform backup and recovery of the Oracle 8 database. Develop PL/SQL stored procedures and triggers.
* Perform the design of a data warehouse for an Executive Sales and Marketing Information System for Hewlett Packard, Latin America Region.
* Develop data extraction and migration scripts for transfer of data from legacy systems to Oracle 7.3 database tables using “PERL 5” in the HP-UX (10.20) UNIX environment.
* Perform database administration of the Oracle 7.3 database that supported a data warehouse. Write stored procedures and triggers using PL/SQL.
* Develop a remote sales order entry system for use by sales professionals of a wine distributor at customer locations. Used PowerBuilder 5.0 to develop the front-end and Sybase SQL Anywhere 5.5 for the back end.
* Develop triggers, procedures, and batches for enhancing the performance of the in-house Executive Information System developed in PowerBuilder 4.0.

**FLORIDA INTERNATIONAL UNIVERSITY, JUNE 1996 – AUGUST 1997**

**Research fellow (funded by a NASA Grant)**

* Design & develop a semantic (Object-Oriented) database for the Everglades National Park. Convert this schema to a relational schema for implementation in Oracle 7.0 on a Sun Solaris platform.
* Design, develop & test a multi-threaded, multi-user operating system in the UNIX environment utilizing C and C++ programming.
* Create a distributed database system management project over ISDN networks and perform research in ISDN bandwidth allocation techniques.
* Develop a prototype bug reporting and project management system.
* Write annual interim technical progress reports for research grants from NASA and the ARMY Research Office. Write research grant proposals for obtaining research funding for ongoing and new research projects at the High-Performance Database Research Center. Obtained funding in excess of $5 million.
* Install, configure, and maintain Oracle for Workgroups 7.1 over a Novell NetWare Network.
* Develop a Help-Desk management system using Object Oriented Analysis and design.

**STATE OF OHIO, JUNE 1992 – FEBRUARY 1996**

**Systems Consultant**

* Design, install and maintain local area networks using the Novell NetWare operating system, Windows for Workgroups, and Windows NT (versions 3.51 and 4.0).
* Design, develop, implement and administer a database for organizing documents and blueprints used in prison construction for rapid access in emergencies.
* Provide consulting on prison electronic systems maintenance, upgrade & refresh.

**TATA IRON AND STEEL COMPANY, AUGUST 1989 – AUGUST 1990**

**Electronics Foreman**

* Implement a preventive maintenance program for scheduling the servicing of electronic equipment. Implement procedures for responding to electronic equipment breakdown situations.
* Manage an inventory of spare parts needed in the maintenance of electronic equipment. Install and maintain Programmable Logic Controllers (PLC’s) used in steel making.
* Supervise contractors and sub-contractors involved in installation and commissioning of electronic equipment. Supervise a team of electronics technicians.

DYNAVEST INDIA, MAY 1989 – AUGUST 1989

Technical Service Executive

* Install, commission and maintain computer numerically controlled (CNC), drilling machines used for printed circuit board (PCB) manufacturing.
* Manage and track spare parts used in electronic equipment maintenance.

**EDUCATION:**

##### Bangalore University, Bangalore, India

**Bachelor of Electronics Engineering B.E - First Class Engineer**