|  |
| --- |
| LAkshmanan Lakshmanan  **Singapore Permanent Resident (PR)**· +65 9296 8076  [Lakshmananl@icloud.com](mailto:Lakshmananl@icloud.com)· <https://www.linkedin.com/in/lakshmananl/> |
| A seasoned technology professional with more than 12 years of experience focusing on infrastructure architecture. I enjoy hands-on approach to technology; my background has allowed me to understand, educate and evangelize latest technology capabilities including cloud, big data, agile and DevOps best practices to devise creative solutions for my clients. Fine balance of technical and management skills, with proven ability to lead and collaborate in distributed teams around the globe to deliver multiple concurrent projects, meet deadlines whilst and at the same time comprehending complex and interdependent business processes, as well as working closely with clients to realize their technology vision. Along the way I have gained experience in many other areas, including virtualization, Linux and Unix, networking, storage and scalable web architectures. In my five+ years as a consultant, I gained experience in project delivery, strategy, delivery assurance and ITIL. The chain of continuous professional achievements obtained by exemplifying servant leadership and prowess with personnel development. Respected by customers and colleagues as an innovative change agent with an unwavering customer orientation and proven integrity. |

# core competencies

|  |  |
| --- | --- |
| * Design and participate in technology pilot projects or proof-of-concept (POC) activities * Infrastructure solution design, planning and management * Database as a service solution * Platform as a service solution * Software as a service * Hybrid Cloud solution * Identity and Access Management in cloud * Cloud storage solution (s3, Azure storage) * Data platform infrastructure design and implementation (AWS, Azure & GCP) * Help implement and adapt continuous Integration and deployment * Performance engineering * Database and Application backup and recovery solution * Vendor relationship management * Strategic business partnership * Disaster recovery planning, design and implementation * Container Architecture (Docker, Kubernetes) | * NoSQL and value pair data and database solution (MongoDB, H-Base, Cassandra) * Open source database administration (MySQL and PostgreSQL) * Cloud solution and architecture * Data and Database security * Cross-Functional Team Leadership * Process implementation and re-engineering * Cost control and containment * Team building * Infrastructure as a code design and development * Python, PowerShell, SQL and PL/SQL development * Team retention * Financial and regulatory report development * Python development (intermediate level) * Data science (beginner level) * Deep Learning (beginner level) * Regulatory and compliance risk management for public and hybrid cloud solution FSI |

# Experience

|  |  |
| --- | --- |
| July 2017 – PresentSenior Consultant, Royal bank of canada The bank is currently working in digital initiatives which are to be delivered by early next year, my role as consultant is to help design, review and implement public and hybrid cloud solutions in alignment with the global architecture guidelines that will enable achieve the digital initiatives in APAC region which includes Hong Kong, Beijing, Singapore, Japan and Australia. Scope of work also includes reviewing the current technology infrastructure and identify opportunities to move them to hybrid cloud solutions based on the regional regulatory guidelines for various countries involved. | |
| * As part of global team managing the APAC region for projects and daily operations for the bank’s digital initiative * Solution Asia digital banking project for hybrid cloud implementation, alongside with the global architecture team and vendor * Review and help refine the current operational process to help move to a global support model based on past experiences | I am using this period to educate and enhance myself in areas like Hybrid cloud solution, data platform architecture, data engineering and data science. |
| July 2016 – June 2017 (Fixed contract 1 year)Project Delivery, Standard charterEd bank, singapore I was part of project delivery team for bank’s BASEL 3 regulatory reporting organization, responsible for Asset Liquidity management and Risk Applications project delivery ensuring agile and continuous delivery methods and frameworks are incorporated to their existing process to achieve minimum risk for release of code to production environment. In this role, I had to work in close collaboration with vendor and business analysts | |
| * Proposed similar vendor solutions which used technologies like Hadoop and NOSQL enhance the performance and effective usage of the data available within the Bank. * With standardization in place, took the opportunity to propose hybrid cloud solution for the Asset liquidity management and risk applications. * Identify and Automate common tasks like data life cycle management, storage tiering based on bank’s data governance and compliance procedures. * Designed and built automated solution to setup DEV and QA environments after detailed review with vendor and application teams enabling agile development and continuous delivery * Implemented standard processes using ITIL framework to handle incidents and service request which improved system availability and service efficiency. * Review and optimize the application to achieve better SLA for the regulatory reports sent at various time periods (daily, weekly, monthly and yearly) * Consolidated and standardized the number of non-production environments from 300+ to 60+ after detailed review with development and testing teams | * Proposed roadmap to reduce non-production environment cost by $2 million YOY by consolidation and process standardization refinement and automation. * Reduced the DEV & UAT environment setup time to few hours from few days/weeks which saved more than $3-$4 million YOY for development and test environments by automation, thereby enabling team for agile development * With standard process in place, proposed and influenced the team to adopt hybrid cloud solution which will be cost effective and enhance performance |
| July 2014 – June 2016Senior database Administrator, cme group, singaporeBased in Singapore, as part of the global database team was responsible for post trading technology operations and support for one of the world’s biggest exchange. Responsibilities include review and enhance data models for new applications and advice on best practices for OLTP and data warehouse applications. Automate many common DBA tasks utilizing Python and cx\_Oracle. Responsible for planning and handling quarterly disaster recovery testing (including the regulatory DR tests with 2 hours RTO) from Singapore | |
| * Instrumental in developing processes, templates and guidelines for transition of project and support activities within the database team in various geographies to enable smooth transition * Responsible for all database change deployments during the Singapore time zone by active collaboration with various application teams by understanding the dependencies and priorities * Responsible for incident and problem management during Singapore operational support hours for database related issues and follow-up with various infrastructure and application teams * Responsible for regulatory and compliance process related to data security and data integrity for all data sources and databases. * Working with various application teams to guide, review and resolve database issues related to development and implementation in production by complying with security, performance and integrity of data * Facilitated the new team of operation support (level 1 & 2) to introduce, understand criticality of database real estate used by the various application. Also, familiarized them with common database alerts and empowered them to classify the severity of incidents. | * Proposed roadmap for migrating 100+ DEV & UAT databases on shared infrastructure (Exadata & RAC), to cloud * Designed and implemented automation using scripting for bundle, PSU patching for Exadata and dataguard (monitoring, switchover and failover) * Worked in partnership with ORACLE for the 12c migration project and assisted Oracle Bug Discovery during various application testing using RAT (Real application testing) |
| August 2011 – June 2014Lead architect, GFT Asia markets, singaporeProvide technological and enterprise infrastructure roadmap to one of the leading Forex trading platform provider for retail and institutional partners around the world. Lead infrastructure related aspect in strategic planning, process development, operational design and security and daily operations in support with the IT team. Serve on the IT leadership and management group and directly report to the service delivery Director. Collaborate and offer leadership to database related aspects within the organization and to our partners.  * Planned, Designed and implemented cost effective disaster recovery system in the cloud (AWS). | |
| * Developed disaster recovery process and procedure for database systems including fallback plan (ORACLE dataguard in physical standby configuration with flashback enabled in primary and standby) * Documented all database related aspects like current database architecture, schema details including procedure and packages used by trading platform. * Standardized and consolidated the number of databases after complete review and understanding of the system and application architecture. * Played a key role in re-aligning IT infrastructure strategy for the organization, by persuading and evangelizing various team to adopt cloud/hybrid cloud for certain business applications * Migration technique for moving Japanese partners to core trading system, which help save tremendous amount of time and millions of dollars YOY for the organization. * Streamlined and documented backup and recovery process and procedure of databases with all possible recovery scenarios. * Equipped members of technical support team with basic SQL and PL/SQL knowledge which could enable them take care of simple reporting activities and data changes. * Implemented standard processes using ITIL to handle database related incidents and service request with improved system availability and service efficiency. * Recommended, designed and implemented warehouse database (10 TB) with the help of ORACLE streams and Golden gate replication from trading platform for the Business Intelligence tool, which aided the organization make key decisions based on real time data. |  |
| october 2007 – october 2008 & october 2009 – July 2011consultant and tools solution architect, atos information systems, singapore As part of database service delivery team for one of the world’s leading bank involved in operational support and maintenance of the bank’s database infrastructure. Worked and oversaw daily operations of ORACE and IBM DB2 UDB databases running on various UNIX flavors. Actively involved in disaster recovery drills every quarter, collaborate with development and application support team for change implementations during the weekend. Help identify areas of improvements after review of incidents and performance dashboards every quarter. | |
| * Enhanced backup performance of (ORACLE and DB2 UDB) key database systems by incorporating standards, simplified process and procedures which was appreciated and recognized by the Bank. * Played key role in upgrading the storage infrastructure for all the application, by taking care of all database related aspects. * Assisted to reduce number of incidents related to the database by incorporating shell and SQL scripts to monitor storage, errors, logging and replication (streams and Golden gate) latency. * Designed and delivered the workflow and an on-line tool that was used for mass software installation and computer configuration at the Equipment Factory. The Equipment Factory produced 2300 laptops configured in 18 different configurations for the Olympic Games. * Incorporated monthly review report for database related incidents which was shared with the Bank’s management to showcase support effectiveness to high priority incidents affecting business. * Mentored fresh graduates, by providing technical guidance and direction to help them progress professionally and personally aligning with organizational objectives. * Instrumental in designing and implementing database infrastructure (ORACLE with dataguard in physical standby configuration) for the youth Olympic games 2010 | * Proposed roadmap for consolidating databases on shared infrastructure, which facilitated to save millions of dollars on infrastructure and license costs YOY. * The solution worked flawlessly and achieved comfortably all performance and quality targets. In order to do so, I managed all dependencies and worked very smoothly with other teams. * Planned and executed the project to standardize version of the database, aided to save US$ millions on support costs. |
| october 2008 – october 2009 (Fixed contract 1 year)database architect, ibm, singapore (for LTA, singapore)  * Understand requirements and convert high level technical design to practical and usable solutions * Design and architect database infrastructure for application. * Logical and physical database design and documentation for the application. * Define and document security standards for database and application. * Maintain development and test environment databases accessible to the development and quality teams * Perform Database daily operations to support the developers and quality teams during various stages of the SDLC. * Develop 200+ stored procedures, triggers, functions and shell scripts for application and database maintenance. | |
| july 2007 – october 2007 (Fixed contract)lead consultant, covansys, singapore (for unilever, singapore)  * Perform Database daily operations to support the internal customers and run business using the ITIL processes. * Migrated large ORACLE databases size of 3TB+ to SQL SERVER 2005 * Designed and implemented auditing solution for financial application running on SQL SERVER and DB2 UDB databases. * Report current performance bottleneck using standard methodology and recommend improvement in performance. | |
| july 2005 – july 2007lead engineer, hcl technolgies, indiaProjects Handled and RolesPerformance Testing (EMC² USA), DBAConsulting (Deutsche Bank, DB Performance), DBAApplication & Report Development (KANA Inc. US), Jr. DBA | |

# Education

|  |
| --- |
| June 2005Bachelor of engineering, anna university, india |
| february 2007post graduate certification in business management, IFMR India |
| september 2015masters certification in cio practices, national university of singapore |

# certification

|  |  |
| --- | --- |
| march 2006oracle certified associate, oracle corp., usa | http://www.consultncorptrain.in/images/oca1.jpg |
| December 2010ibm certified professional for db2 udb v9, ibm, usa | http://www.celledge.com.my/wp-content/uploads/2012/10/Certified_no_stars_updated.png |
| september 2015itil foundation v3, axelos | https://phoenixts.com/wp-content/uploads/2016/12/itlfoundation.jpg |
| July 2017aws certified solution architect associate, amazon web services | http://wembleycarvalho.com/tags/SolutionArchitect.png |

# Awards and Recommendations

* **Awarded "Outstanding Performer" consecutive years 2005-06 and 2006-07 at HCL Technologies.**
* **Recognized and appreciated for the work done on database security at Unilever Singapore**
* **Recognized and appreciated for the work done at Singapore Youth Olympic games 2010**
* **ORACLE Database Administrator and Tools Solution Architect at Singapore Youth Olympics 2010**
* **“Star Performer” at GTF Markets for consecutive years 2012 and 2013**
* **Recognized and appreciated for the work done at CME group 2015**
* **Recognized and appreciated by business team for the work done at Standard Chartered Bank 2016**

# References

Available upon request