

Thillaivel N Ranganathan

Mobile: (510) 808-4488 | <https://www.linkedin.com/in/tranganathan> thillaivel.ranganathan@yahoo.com

Technology leader with a passion for creating and delivering products and solutions that delight customers. Comprehensive experience and outstanding results in technology strategy, architecture, software engineering, algorithms, data, security, infrastructure and operations. Experience in conceptualizing technology strategies and roadmaps that accelerate business growth.

Knowledge of several industry sectors including Financial Services, Retail, Healthcare, Telecommunications, Airlines and Transportation. Ability to work effectively in large enterprises or in small companies.

Ability to influence with persuasive communication, presentation and negotiation skills. Ability to work effectively as an individual contributor and to build, motivate and lead large engineering teams. Directly managed teams of 10+

Proven ability to lead and deliver large-scale engineering initiatives. Strong ability to analyze and improve performance, scalability and availability of production systems.

- Cloud Computing, AWS, GCP, Azure, Hybrid Cloud
- Performance, Scalability, Availability, SaaS, PaaS, IaaS
- Agile / Scrum, Requirements, Algorithms, Design, Coding, UI/UX
- Big Data, Data Science, Data Analytics, Hadoop, MongoDB, Cassandra, Splunk
- SOA, SOAP, REST, Java, C#, Python, JavaScript, Perl
- Oracle, SQL Server, PostgreSQL, Data Modeling
- Security, Identity and Access Management Suites
- Deep Learning(Advanced), Predictive Modeling, Statistical Analysis, Data Structure & Algorithms

Citizenship Status: US Citizen

Professional Experience

Wells Fargo Bank

Lead Software Engineer

April 2020 – Till Date

- Experience connecting all type of data sources, and the ability to handle a large number of data sets
- Experience working with key Performance indicators, metrics, data analysis, debugging and validation skills
- Great Experience to meet customers & partners building End to End Data Pipelines, we showcased how we implement Ingestion, Reverse ETL, Data Observability Pipelines
- Build highly scalable and reliable pipelines for analytics
- Created Unix, SQL, PL/SQL, and SQL*Loader scripts to automate data downloads and summary table creation from a legacy system into Oracle
- Proven experience in database architecture and administration, with specific expertise in Oracle R12 Financials.
- Written Store Procedures Triggers to extract transform data and publish to various consumer lending and small business banking.
- Attended Training in Spark SQL, Data frame & Data Sets
- Communicate with peers and supervisors routinely, Meetings and decisions
- Provide overall management of the Variance Reports and Data Reconciliation

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- Drive continuous improvements in deployment, management, and monitoring of infrastructure and application's web services
- Performed Schema level and Table level data refreshes from Production to Development Environments using Data pump
- Data movement from Oracle to MongoDB, Configure MongoDB Connector for Apache Kafka
- Lead and actively participate in the design, development, and maintenance of software applications, leveraging Oracle Cloud Fusion and other relevant technologies.
- Used Python in SQL Injection Attacks, Used Big O Bubble Sort optimization, Ranges, Tuples.
- Designed and implemented a fully automated CI/CD pipeline, reducing deployment time by 50% and increasing deployment frequency by 75%
- Developed and maintained infrastructure as code, resulting in a 40% reduction in infrastructure costs and a 30% increase in system reliability
- Research and recommended new technologies and tools to improve system
- Develop Alerts and timed Reports and manage Splunk applications

Environment: Oracle ExadataX5-2, Oracle Enterprise Linux, Splunk, Jenkins, Tableau, JIRA, Confluence, Bash

Oracle Corporation, Pleasanton, CA

Jul 2001 – Aug 2019

Principal Technologist/Solution Architect

Experienced Senior Principal Technologist with a demonstrated history of working in the information technology and service industry. Skilled in Oracle Database, Databases (SQL Server, DB2, Informix, My SQL, Infrastructure as a Service (IaaS) Platform as a Service (PaaS), and Software as a Service (SaaS)

- Build relationships with internal organizations (Product Development/Management/Marketing, Training, sales, presales and Enablement teams) to understand and leverage the Oracle ecosystem in support of Customer/Partner success.
- Ensure all team deliverables are met, Dedication and commitment for customer success
- Strong organizational and time management skills, Ability to embrace and impact change
- Initiative - Proactive, self-motivated, and self-directed. Take responsibility instead of tasks
- Build executive level partner relationships
- Manage the installation, configuration, and maintenance of databases, including routine updates, patches, and backups, to support our ERP Cloud solution.
- Collaborate with data engineers to ensure seamless integration of financial data from Oracle R12 Financials into other enterprise systems.
- Proven experience in software development, with a strong emphasis on Oracle Cloud Fusion.
- Coordinated with internal and external customers to develop new value-added programs and data solutions with existing data warehouse structure
- Entrepreneurial and strategic mindset, thriving at the intersection of technology and business
- Working with the ISV team on the Priority Cloud Accounts (Top ISV partners)
- Architecture & Design validations for ISV App certification on OCI & Assisted **ISVs certify their solution on OCI**
- Create & Maintain the **OBIEE dashboards and ORACLE 12c databases**

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- Installed and administered GOLDEN GATE in a unidirectional, bidirectional, and broadcast configuration to mainly replicate data and ensure high availability
- Manage & Configure Legal Entities (Jurisdictions, Authorities, Addresses, Geographies, Legal Entity Configurator) in FUSION APPS SCM
- Hire and develop talent to support current and future organizational direction
- Mentor and develop Team Leads
- Create & Maintain Linux VM's in the Hypervisors inside & outside the firewalls
- Hands on engineering of middleware products, through a deep understanding of technologies such as: Oracle WebLogic & Fusion Middleware, ODI, WebCenter Content, Oracle IAM, Oracle E Business Suite, OBIEE
- Oracle E-business SCM modules – inventory, purchasing, order management
- Collaborated with the business stakeholders and created Dashboards, KPIs and Metrics. This helped streamline and centralize the data systems, reduce support costs
- Architected and engineered a Data Platform using AWS EMR, Airflow (Kubernetes,), Kafka, Docker, SAAS, Snowflake, Looker platform, Terraform, etc., to harvest data from 100+ silos into a Data Lake for running actionable analytics
- Experience with core Azure security – Azure defender for cloud and security center
- Azure ExpressRoute to create private connections between Azure datacenters and infrastructure on premises or in a colocation environment
- Experience in Dimensional Modeling, Star and Snowflake Schemas design and maintaining dimensions using Slowly Changing Dimensions (SCD)
- Deploy, configure and maintain database on Azure and AWS Cloud using standard automation framework and observability tools
- Expertise in Snowflake advanced concepts like setting up resource monitors, RBAC controls, virtual warehouse sizing, query performance tuning, Zero-copy clone, time travel and understand how to use these features, Feature of Surrogate Keys
- Responsible for PeopleSoft Tools upgrade and Image update on existing PeopleSoft database and deliver it for testing
- Experience in App Designer, Data Mover, SQR, Tuxedo, WebLogic Server, Integration Broker
- Used JIRA queries for issues tracking in the confluence wiki

Environment: Sun Solaris, Oracle Enterprise Linux, Windows Server, E-Business, PeopleSoft, OBIEE, JIRA, Confluence, Azure, OCI, Oracle SOA, BPEL, Bash, AWS

Hewlett Packard, Palo Alto, CA Database Architect

Jan 2000 – Jun2001

Worked as a Database Architect for Enhancement of HP Business Store and led the development of Worldwide HP Business Store

- **Primary responsibility for all administration of 2 production and 3 development databases.** Duties encompassed of installation, upgrades, configuration, auditing, hot /cold backups, recovery, proactive monitoring and all tuning
- Designed, setup and tuned a multi-Terabyte Oracle Database for online & Batch Transactions
- Streamlined Oracle RDBMS management by use of Software, which included the Oracle Enterprise Manager with Performance, Tuning and Change Management Packs. Heavy experience with Quest Software's Space Manager and SQL Lab Tuner, and SQL Navigator
- Worked from design through implementation of reporting data warehouse using an ODS (operational data store)
- Lead the design and architecture of databases that support our financial systems, with a focus on Oracle R12 Financials, ensuring data structure aligns with business requirements.

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- Utilize deep knowledge of Oracle Cloud Fusion to implement, customize, and integrate cloud-based solutions
- Enhancements of HP Business Store in Functional Requirements
- Responsible for finalizing user requirements and building Dimensional, Fact models for meeting Data warehousing requirements

Environment: HP-UX 9000/ N, K class series, Oracle 8.0.5/8i series, Brio, Business Objects

Brodia Group Inc, San Francisco, CA
Database Architect

Feb 2000 – Dec 2000

Resolving Performance issues and assisting the client DBA team to improve the performance of the applications

- Monitoring resources both at the OS & Database levels
- Installing & upgrading the patches
- Written Perl scripts to run & monitor the Process
- Used Erwin tool to design Entity relationships & process models
- Troubleshooting the performance issues and performed Backup & Recovery Operations
- Ran many performance tests to evaluate the system, tune the database and estimate any required extra CPU and memory
- Implement robust database security measures, access controls, and encryption to protect sensitive ERP Cloud data.
- Capacity planning and tuning the storage parameters for each table and index
- Design and development of hot and cold backup scripts
- Tuned a **VLDB** (3TB) oracle databases for online & Batch Transactions

Environment: Sun Enterprise servers 450 series, Oracle 8.0.5/8i

Webvan Group Inc; Oakland, CA
Oracle DBA

Jun 1999 – Jan 2000

Worked as Database lead for **Order Fulfillment system (OFS)**. As a member of IT-Ops team, involved in supporting and smooth implementing of the project and responsible for maintaining the software after it has been successfully implemented

Environment: Windows NT, Oracle 8.0.5, Microsoft Access 97, SQL PLUS, SUN Solaris 2.6

Lipton Corp; New York
Application DBA

Oct 1998 – May 1999

Cole Layer Trumble; Ohio
Application DBA

Aug 1998 – Oct 1998

Oracle Corporation; Redwood city, CA
Porting Engineer for Unisys Corp

Dec 1996 – Jun 1998

Technical Proficiencies

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- Oracle RDBMS 19c, MySQL, Mongo DB 4.x
- Microsoft SQL Server
- Docker, Terraform, Kubernetes
- DevOps
- Ansible
- UNIX, Linux, Windows
- Apache Kafka, Jenkins, GitHub
- Business Intelligence
- Oracle Fusion Middleware
- WebLogic
- Rest API, SOAP
- Oracle Fusion Applications
- C, C++, Python, SQL, PL/SQL

Education, and Training

- Bachelors in computer science and Engineering, University of Madras