Vivek Nagarajan

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PROFESSIONAL SUMMARY

A highly motivated Technology Consultant with 15 years of extensive experience in building backend applications for data intensive OLTP & Data Warehouse environments, with core expertise in Banking Domain, Oracle, Python, Application & Data Architecture, Data Modeling, Application integration, SQL, PL/SQL, SQL Performance Tuning, Oracle Database Administration, Shell Scripting, Autosys job scheduling and Cloud technologies - Azure, Snowflake.

Extensive experience with Project & People management. Successfully lead many project implementations across all phases of application development in Agile & Waterfall models. Actively managed project deliveries with teams working across geographies.

Highly recognized, approachable and a trusted individual at worksite with strong ownership & ability to contribute at any level within the organization. An excellent oral & written communicator with experience working across cross functional teams. A quick learner with the ability to learn-unlearn-relearn things with a strong passion towards continuous learning and a love towards sharing the knowledge.

TECHNOLOGY EXPERTISE

- Actively working on IT strategy in migrating on-prem applications to public cloud.
- Actively working on defining the data models in Data Vault standard to migrate on-prem Oracle tables to Snowflake.
- Architected and implemented a horizontally scalable & highly available Calculation Engine, to compute Performance & Risk metrics for the funds administered by the bank, using Python 3.x, Oracle 12c, Django, Pandas, NumPy, NGINX load balancer and REDIS Cache.
- Successfully implemented multiple Data Warehouses for various regulatory requirements of the bank.
- Actively contributed for a AWS cloud based Data management product development based on Java, Aurora PostgreSQL, DynamoDB. Defined the DB security model for PostgreSQL deployment in cloud.
- Possess a strong knowledge on Oracle Architecture & Internals, SQL and PL/SQL programming.
- Hands-on experience with designing databases for high performing OLTP & Data Warehouse applications.
- Expert in Performance Tuning of SQL statements using Oracle Hints, Execution plans & Partitioning techniques, creating PL/SQL Stored Procedures, Functions, Packages, Triggers, Oracle cursor management, exception handling & propagation, Ref Cursors, Dynamic SQL, Objects and Collections.
- Extensive experience in developing Korn Shell scripts and scheduling jobs through Autosys.
- Developed numerous automations using Oracle and Shell Scripting.

SKILLS

- Oracle Database
- Python 3.X
- Snowflake
- Azure
- App & Data Architecture
- OLTP & Data Warehouse
- SQL & PL/SQL
- Oracle Performance Tuning
- Data Modeling
- Data Vault
- REDIS
- NGINX
- Web Service
- Shell Scripting
- Java
- GIT Version Control
- Autosys Scheduling

CERTIFICATIONS

- Snowflake SnowPro Core
- Microsoft Certified: Azure Fundamentals
- AWS Certified Solutions Architect – Associate (Validation# N6CBV0S2FBF4QZGK)
- Oracle Certified SQL Expert,
- Oracle Certified Associate – PL/SQL Developer

EDUCATIONAL QUALIFICATIONS

Bachelors in Information Technology, 2005 Anna University, India

ACHIEVEMENTS

- **Unsung Hero** - Awarded by State Street Bank & Trust, for the dedication, technical expertise, team collaboration and for successfully delivering a very complex project in a short duration exceeding customer's expectations.
- **Business Enabler** - Awarded by Cognizant Tech Solutions for demonstrating potential to build products of high quality and to collaborate with technical and non-technical users.
- **Pat On Back Award winner** - Awarded by Mahindra Satyam (Satyam Computer Services Ltd) for completing a critical project with excellent PL/SQL code quality.
- **Certificate of Recognition** – Awarded by McGraw-Hill companies for demonstrating excellent innovation, team work and contribution to the Overall success of the project.

PROJECT HISTORY

Application & Data Architect, Oracle Consultant @ State Street Bank & Trust Company

Project Duration   September 2014 - Present

- Actively working on IT strategy in migrating on-prem applications to public cloud.
- Actively working on defining the data models in Data Vault standard to migrate on-prem Oracle tables to Snowflake.
- Architected and implemented a horizontally scalable & highly available multi-tiered Calculation Engine to compute Performance & Risk stats for the Funds administered by the bank. The Calculation Engine is being developed with the intent to,
    - Be a single producer of Performance & Risk metrics and to replace multiple existing backend services that are in use today to support various BI applications.
    - Generate stats for multiple fund hierarchies based on Security classifications.
    - Introduce new stats with simple database configurations avoiding code changes & deployments.

- Designed the end to end architecture of Calculation Engine using Python 3.x, Oracle 12c, Django, Pandas, NumPy, NGINX load balancer and REDIS Cache with data replication & auto failover capabilities.
- Successfully implemented multiple Data Warehouses for various regulatory requirements of the bank using an in-house data management SaaS product. In addition, actively contributed towards enhancing multiple features of the data management SaaS product.
- Actively contributed for a AWS cloud based Data management product development based on Java, Aurora PostgreSQL, DynamoDB. Defined the DB security model for PostgreSQL database in cloud with deployment to be performed through Ansible & Cloud formation scripts.
- Resolved many Oracle SQL performance issues across multiple data warehouses and applications.
- Interacted with Business Analyst & product team to review the business & functional requirements.
- Actively worked with SQA team throughout the testing phase, initiated change management activities, lead the production deployments, involved in defect fixes and post production support.

Oracle Database Lead @ JP Morgan Chase (Cognizant Tech Solutions)

Project Duration   April 2010 - August 2014

- Lead the backend application development for a new Prepaid card platform, in onsite-offshore model
- Architected and implemented a core backend module named "Payment Engine".
- Defined the Oracle schema (Tables & related) and developed PL/SQL components (Packages, Functions, Procedures, Triggers etc.,), shell scripts and Autosys jobs associated with the new platform.
- Actively worked with Business Analyst & product teams towards defining & reviewing the Functional Requirements, based on the Techno-functional SME knowledge from an existing prepaid card platform associated with Health Savings Account business.
- Resolved multiple SQL performance issues across the platform.
- Heavily contributed towards implementing a payment card authorization module in PL/SQL.
- Actively participated in project status meeting, performed L0/L1/L2 estimation, initiated change management activities, involved in defect fixes and post production support.

Oracle Database Lead @ Ministry of Law – Singapore (Satyam Computers)

Project Duration   May 2009 - April 2010

- Designed the entire database structure and developed Oracle Objects (Stored Procedure, Functions etc.) for a data migration project.
- Assisted the front-end development team with respect to database related clarifications/ issues.
- Performed the Data Mapping between the tables of existing and new system.
- Wrote transformation scripts for Data Migration.
- Interacted with the customers to get the clarifications with respect to Data Migration.

Sr. PL/SQL Developer @ Electronic Arts (Satyam Computers)

Project Duration   January 2009 - April 2009

• The project was to perform automatic on-boarding & off-boarding of EA's employees with their employee numbers to be maintained in PER_ALL_PEOPLE_F table on Oracle ERP.
• Performed one time data cleanup to capture the employee ID in PER_ALL_PEOPLE_F.
• Created Concurrent Program to generate the discrepancy report on the Employee/Contractor number stored in PER_ALL_PEOPLE_F table.
• Performed Unit testing, coordinated the integration testing & Code deployment.

PL/SQL Developer @ Logitech Inc (Satyam Computers)

Project Duration   November 2008 - January 2009

• The system was designed for Logitech Inc., for its Sales and Marketing (S&M) team. Interacted with EA's business team to get the requirements. Designed Accrual Engine and the required Oracle database objects (Tables, Stored Procedures, Triggers etc.,).

PL/SQL Developer @ McGraw-Hill (Satyam Computers)

Project Duration   September 2007 - October 2008

• Designed & developed Oracle database objects (Tables, Procedures, Packages etc.,), performed Unit testing & Integration testing, worked on WebQL language to load data from Web.

Developer @ Citi Cards (Tata Consultancy Services)

Project Duration   November 2006 - May 2007

• As part of production support, resolved the tickets raised by the end users of the system, worked on Clear case configuration system to compile & deploy the latest application patch.

Developer @ Standard Chartered Bank (Tata Consultancy Services)

Project Duration   January 2006 - October 2006

• Worked on a maintenance project associated with a data service backend component written using Oracle, Pro*C, C and C++. Contributed in design, development, Unit testing and Deployment Support.