

PRERNA GOEL

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OBJECTIVE:

A self-motivated, team player with good organizational skills and outgoing personality seeks a position of responsibility and hands-on development in Big Data environment.

SUMMARY:

- Over 14 years of software experience with Big Data, Reporting, ETL, Data Modeling, Development, Maintenance of Analytic and Operational databases.
- Involved in software development lifecycle (SDLC) participating in requirements gathering, design, development and maintenance of production systems.
- Experience in working with Big Data technology utilizing Hadoop, Scala, Spark, Hive, Sqoop.
- Implemented custom applications using Oracle SQL, Oracle PL/SQL, Oracle Web PL/SQL to automate departmental processes.
- Extensive experience with writing packages, stored procedures, functions and database triggers using SQL and PL/SQL in Oracle.
- Experience in weekend support for production systems with troubleshooting and resolving issues which may include modifications to database schema/data, programming logic and/or business processes.
- Multitasked with excellent track record of interfacing with clients on executing concurrent multi-technology projects.
- Excellent communication skills, self-motivated, ability to work independently or cooperatively in a team, eager to learn, ability to grasp quickly.

SKILLS:

Languages:	Scala, Spark SQL, Presto, Hive, SQL, PL/SQL, JavaScript, CSS, HTML, jQuery, Perl, Shell Scripting
Software:	Oracle 11g/9i/8i, IFS ERP, Oracle Financial Applications 11i Microsoft SharePoint, Microsoft InfoPath Form Services, Visual Studio, Eclipse, DocuSign
Operating Systems:	Windows NT/XP/2003, Unix – HP/UX, Solaris, Ubuntu Linux.
Others:	Sqoop, Toad, SQL*Plus, SQL*Loader, Crystal Reports, Unix Shell Scripting, Microsoft Visio, RCS, SVN, Virtual Box Oracle PL/SQL Developer Certified Associate. Passed exams – Introduction to Oracle: SQL and Program with PL/SQL.

WORK EXPERIENCE:

Title: Data Engineer LinkedIn

June 19 – June 20

Project: Teradata Migration and Unified Metrics/Dimensions Platform(UMP/UDP): For Teradata migration, converted Teradata scripts to Presto. For UMP/UDP, implemented, troubleshooted and analyzed performance for daily flow for multiple Source of Truth (SOT) tables.

Environment: Hadoop, Presto, Scala, Spark, Hive, Azkaban, Tableau, Unix, Git

Responsibilities

- Migrated existing Teradata SQL scripts to Presto for different business orgs at LinkedIn (LMS, Insights, LSS, GSO). Optimized performance of queries by analyzing Presto UI.

Worked with querying complex nested objects in Presto to reconcile against Teradata. This effort contributed to tens of millions dollars savings for LinkedIn.

- Created and tested UMP/UDP flows using Hive and SparkSQL for centralized platform of SOT (Source of Truth) tables.
- Optimized long running SparkSQL scripts and Hive jobs - identified and fixed issues with data skew and OOM.
- Created Azkaban jobs for scheduling jobs and tuning flows by analyzing Dr Elephant.
- Modified Tableau dashboards used in internal business reporting.

Title: Senior Software Engineer, Bank of the West

Jan 18 – Dec 18

Project: Historical Trend Analysis of NSF-OD (Non Sufficient Funds — Over Draft) transactions along different dimensions including LOB, Branch Location, Region, and Customer Profile, including age, net worth, average monthly balance etc. Processing NSF-OD transactions for CFPB (Consumer Financial Protection Bureau) compliance and risk assessment based on customer profile.

Environment: Hadoop, Scala, Spark, Hive, Azkaban, Sqoop, Unix, Oracle 12c

Responsibilities

- Developed a data pipeline for the NSFOD project to facilitate customer data analysis.
- Ingest Customer transactional data from Oracle to HDFS using Sqoop. Created Sqoop jobs with incremental load to populate Hive External tables
- Developed Spark jobs in Scala - performed transformations, created custom UDF for processing transactions, and UDAF for trend analysis queries.
- Troubleshoot and optimize performance of slow running jobs by analyzing DAG in the Spark UI.
- Member of sustaining team. Daily defect triage meeting to prioritize production issues with business stakeholders. Troubleshooting and resolving production defects.

Title: Senior Software Engineer, SFMTA San Francisco City

Apr 17 – Jul 17

Environment: Hadoop, Hive, Sqoop, Perl, Oracle SQL, PL/SQL, Oracle12c

Responsibilities:

- Gather business requirements for HMS and P6 systems to map it to the new PeopleSoft implementation and converting into technical document.
- Understand and analyze data from multiple excel files, perform gap analysis, perform data cleanup, consolidate, design metadata, and create PL/SQL scripts for ETL process.
- Created SQL queries using Oracle analytical functions like listagg, pivot and unpivot in conjunction with Oracle PL/SQL pipeline functionality to perform validation, conversions, and lookups on data sets.
- Explored and implemented functionality to send number of attachments (as zip) for email Notifications using Perl.
- Created Sqoop jobs to import data from multiple application sources to HDFS.
- Created Hive scripts to create tables and query for quarterly revenue generation by different categories.

Company: City of San Jose, San Jose

Oct 16 – Mar 17

Title: Senior Software Engineer

Continue to lead the re-architecture, planning and implementation of Legacy Tiburon Record

Management System (RMS) migration.

Environment: Oracle SQL, PL/SQL, Oracle 11i, Toad, Windows, Crystal Reports

Responsibilities:

- Brainstorm with stakeholders of property warehouse application on whether to buy or build in house a new system.
- Evaluate the architectural complexities for data reconciliation and process integration between legacy property warehouse and incidents Record Management systems.
- Work closely with System programmers and Senior Analysts to derive plans for Data Migration, Data Administration and loading into Tiburon database.
- Extracted data from flat files and various databases, load into staging area using Oracle External Tables, perform validations and populated into the target database.
- Developed SQL queries to drill down on time, role and category hierarchies.
- Designed Crystal reports for front-end interfacing.

Company: Aces Red LLC.

May 16 – Aug 16

Title: Consultant to SJPD

Lead the development/maintenance of Legacy Tiburon Record Management System (RMS) -- Migration.

Environment: Oracle SQL, PL/SQL, Oracle 11i, Toad, Windows, Crystal Reports,

Responsibilities:

- Gathered business requirements by meeting with users, functional teams, business analysts for various Tiburon Modules - Narcotics, Incident etc.
- Analyzed business processes and converting the Business rules into technical specifications for ETL process.
- Analyzed the source data from different sources, performed data clean up, established relationship between different entities, mapped database columns.
- Implemented custom scripts to perform ETL flow from Tiburon Oracle Database source.
- Modified existing Crystal Reports and create new ones as per user requirements.

Company: Space Systems Loral (SSL), Palo Alto, CA.

Jul 06 – Mar 16

Title: Senior Software Specialist

Key member of IT team experienced in designing and implementing solutions for various functional groups such as Manufacturing, Finance, and HR, using Microsoft SharePoint, Oracle database programming for creating interfaces and reports, and Web application development.

Project: Costed Bill Of Materials Hierarchical Report

Environment: SQL, PL/SQL, Oracle 9i, Toad, Crystal Reports, Oracle Financial Analyzer (OFA)

Role: Oracle database/BI Report developer.

The report pulls the ERP requirements from nightly explosion and traces through a very complex series of requirement levels from the top of the Satellite down to its lowest levels. This helped the company in their proposals and estimate the cost of building a Satellite.

Responsibilities:

- Created Stack API to implement functions like initialize, push, pop, copy, search etc by utilizing Records and PL/SQL collections.
- Created PL/SQL procedures utilizing the custom Stack API to traverse complex Satellite parts hierarchy, performing validations, assigning quantities and dollars at every level.
- Created PL/SQL procedures to be used as Crystal Report dataset. Performed additional calculations, summarization as per the requirement.
- Involved with ongoing support and performance enhancements for a faster execution.
- Working with database connections, SQL joins, cardinalities, loops, aliases, views, aggregate

conditions, parsing of objects and hierarchies.

Project: Implementation of packages for migration from IFS to Oracle Financials 11i.

Environment: IFS, SQL, PL/SQL, Oracle 11i, Toad, Windows, Shell Scripting.

Role: Financials and Applications Development Team Developer.

Singlehandedly responsible for the development, from the ground up, the corporation's first automated Cost Movement Inventory Reconciliation that led to head count reductions in the Finance/Inventory.

Implemented the entire application/interfaces for Corporate Financials to support actual costing including Non-labor Actuals, and Price Variances from newly implemented Manufacturing ERP System (IFS).

Responsibilities:

- Implemented interfaces using PL/SQL packages to collect data from Oracle Financials, perform validations, data conversions and calculations, to ingest into IFS using published API.
- Analyzed and tuned queries utilizing hints and rewriting queries and cursors, utilizing BULK Collections for performance enhancement.
- Utilized PL/SQL Exception handling for debugging support in production.

Project: Electronic Signature for Capital Expenditure Requests.

Environment: Microsoft Visual Studio, SharePoint Designer, InfoPath, XML, DocuSign.

Role: SharePoint Developer.

Automated the approval process for Capital Expenditure Request (CER) form by replacing multi tier annual with electronic signature flow using DocuSign and Microsoft SharePoint Designer.

Responsibilities:

- Designed List workflow to route approval request based on complex logic including expenditure amount and org types.
- Designed a CER form with collapsible sections and rules for conditional formatting using Microsoft InfoPath Form Services.
- Implemented custom action in SharePoint Designer to connect and send XML payload to DocuSign for electronic signature.
- Create/support multiple SharePoint sites for requirements from different departmental groups. Involved in creating custom lists/libraries, web parts, workflows, permissions levels, etc.

Project: Classified Ads Web Application

Environment: SQL, PL/SQL, Web PL/SQL, JavaScript, jQuery, HTML, CSS, YUI

Role: Oracle Database Developer

Implemented a company internal marketplace for employees to place personal classifieds and announcements. The web based application included HR approval process, and user & administrator consoles for managing (adding/deleting/approving/rejecting etc.) the classifieds.

Responsibilities:

- Coordinated with Multimedia and HR teams to gather and define requirements. Designed the architecture to utilize Oracle Web PL/SQL gateway.
- Designed Entity/Relationship (E/R) models and implemented the database schema. Integrated with corporate Active Directory (AD) to authenticate employee profile.
- Implemented a web form and grid display for collecting/displaying information for a classified; including three image uploads, and showing their thumbnails on the form.
- Implemented front-end web flow and backend logic for HR approval process. Created front-end web flow for an employee to view its approved, or pending listings.
- Images are managed as BLOBs, accessed in web application via Oracle DAD.

Project: Automation of Tuition Reimbursement.

Environment: SQL, PL/SQL, Web PL/SQL, JavaScript, jQuery, HTML, CSS, YUI

Role: Oracle Database Developer

Implemented a company internal web application to automate the process for employees to request and get reimbursed for allocated education expenses. The application comprised of Manager/HR approval process, and included user, manager and HR consoles for viewing active/approved/rejected requests.

Responsibilities:

- Designed Entity/Relationship (E/R) models and implemented the database schema.
- Implemented web forms/layouts for collecting information for an education intent request. The employee and manager profile is pulled from Corporate Active Directory.
- Utilized third party widgets such as YUI autocomplete, calendar and slider widgets. Implemented input validations and length restrictions using JavaScript/jQuery.
- Implemented front-end web flow and backend logic for Manager and HR approval process. Created front-end web flow for employee, manager, HR to view approved, rejected or pending requests.
- Generated a HTML report for HR team to view the total reimbursements made, number of participants, and number of approvals/rejections for given time period

EDUCATION:

Master of Science in Computer Science, California State University, Hayward, CA (3.7/4.0)