

WREETOJYOTI RAY

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PROFESSIONAL SUMMARY

Senior Oracle PL/SQL Tech Lead and LabVantage LIMS Architect with 11+ years of enterprise database experience, specializing in Oracle SQL, PL/SQL, performance tuning, and LIMS configuration for healthcare diagnostics. Proven track record delivering mission-critical laboratory systems supporting 10,000+ daily transactions in oncology diagnostics environments. Recognized top performer with expertise spanning ETL pipeline development, master data management, Jasper Reports, and GenAI/LLM integration for clinical automation.

CORE TECHNICAL SKILLS

Oracle / Database: Oracle SQL, PL/SQL, Oracle 11g/19c, Stored Procedures, Triggers, Packages, Functions, Data Modeling, EXPLAIN PLAN, Oracle AWR, SQL*Loader, Index Tuning, Query Optimization, DB Performance Tuning

LIMS: LabVantage LV8 LIMS, LIMS Architecture & Configuration, Sample Management, Master Data Management (MDM), ETL / Master Data Load, Test Onboarding, Laboratory Workflow Design

Reporting: Jasper Reports, Clinical Data Visualization, Audit Trail Reporting, Compliance Documentation

AI / Python: Python, LangChain, RAG (Retrieval-Augmented Generation), LLMs, Streamlit, Google Gemini API, Prompt Engineering, Agentic Workflows

Infrastructure: Unix Shell Scripting, Git, VS Code, Supabase PostgreSQL, IBM DB2 (migration)

PROFESSIONAL EXPERIENCE

Manager — Application Management Lead

July 2026 – Present

Tata Consultancy Services (TCS) — Confidential Pharmaceutical Client (name withheld under NDA)

- Leading application management for a pharmaceutical client engagement, building on deep LabVantage LIMS and Oracle expertise.

Oracle PL/SQL Tech Lead & LabVantage LV8 LIMS Architect

April 2022 – April 2026

NeoGenomics Laboratories (via Apolis Consulting, a subsidiary of RJT Compusolutions Pvt Ltd) — Kolkata, India

- Retained exclusively by client across a full vendor transition, selected solely for specialized LabVantage LV8 LIMS domain expertise — a direct measure of individual performance impact.
- Architected and maintained LabVantage LV8 LIMS database schema, configurations, and PL/SQL stored procedures supporting mission-critical oncology laboratory workflows with 10,000+ daily transactions.
- Led end-to-end ETL data loading lifecycle for new test onboarding; transformed raw client specifications (test codes, analytes, instrument workflows) into LabVantage LV8-compliant Oracle data structures using SQL*Loader and custom PL/SQL scripts.
- Managed Master Data Management (MDM) across LabVantage LV8, overseeing Sample Management setup, workflow templates, and laboratory master data configurations.
- Developed complex PL/SQL packages, stored procedures, functions, and triggers for the client-facing portal backend, enabling secure, high-speed extraction of clinical audit reports.
- Executed PL/SQL query optimization and index tuning using EXPLAIN PLAN and Oracle AWR, eliminating bottlenecks and sustaining 99.9% uptime SLA across mission-critical laboratory workflows.

Oracle Senior Database Developer & LIMS Specialist

October 2019 – April 2022

NeoGenomics Laboratories (via HCL Technologies) — Kolkata, India

- Developed and maintained LabVantage LV8 LIMS database architecture, data models, schemas, and Oracle 19c queries supporting 10,000+ daily laboratory transactions.
- Optimized SQL queries and PL/SQL execution plans using EXPLAIN PLAN and Oracle AWR, reducing average processing time by 45%.
- Managed Sample Management module data and master data configurations within LabVantage LV8, ensuring data integrity across all laboratory workflows.
- Built custom Jasper Reports for clinical data visualization, audit trails, and compliance documentation.

Oracle PL/SQL Developer

August 2017 – October 2019

National Insurance Company (via HCL Technologies) — Kolkata, India

- Administered Oracle backend for the eBAO Policy Administration System; executed complex PL/SQL data fixes, change requests, and hotfixes for government insurance operations.
- Performed periodic data migration using advanced PL/SQL scripting and SQL*Loader, maintaining full database integrity across major patch upgrades.

Senior Oracle Database Engineer

July 2016 – July 2017

Geological Survey of India (via HCL Technologies) — Kolkata, India

- Maintained HRMS Portal Oracle database; designed and executed complex PL/SQL query modules for payroll processing, including 7th CPC Pay Commission implementation.
- Conducted scheduled database backups, version upgrades, and module modifications for geo-scientific data management.

System Engineer — DB2 to Oracle Migration

August 2015 – July 2016

Bell Canada Project (Metalogic Systems Pvt. Ltd.) — Kolkata, India

- Migrated mission-critical legacy data from IBM Mainframe DB2 to Oracle Database for a major Canadian telecommunications operator, achieving zero data loss.
- Re-engineered legacy COBOL/JCL batch scripts into optimized Unix Shell Scripts, improving batch processing throughput by 35%.

PROJECTS

WanderMaster — Full-Stack AI Travel Planner

wandermaster.streamlit.app

- Architected with Python and Streamlit; orchestrated Google Gemini LLM via custom fallback chain for rate-limit resilience and high availability. Demonstrates end-to-end GenAI application development with RAG principles.

LabVantage AI Copilot — RAG Knowledge Assistant & Study Library

copilot.wreetojyoti.in

- Built a retrieval-augmented AI assistant and study library for LabVantage LIMS that answers configuration and architecture questions grounded in LabVantage reference documentation; deployed as a live web application.

AWARDS & HONORS

- “Distinguishable” — Top 5% Performance Rating, 5 Consecutive Years | HCL Technologies (2017–2022)
- Client Retention Award — Exclusively selected by NeoGenomics Laboratories to continue engagement during a full vendor transition, based solely on LabVantage LIMS domain expertise. | NeoGenomics Laboratories (2022)

EDUCATION

Bachelor of Computer Applications (BCA) — Computer Science

Sikkim Manipal University Completed: 2014 Aggregate: 70%

CERTIFICATIONS

AI & Generative AI

- Building AI Agents & Agentic Workflows — IBM
- ChatGPT Prompt Engineering for Developers — DeepLearning.AI
- Build with Andrew (LLM Applications) — DeepLearning.AI
- Generative AI Foundations — UpGrad
- Microsoft AI for Business Professionals — HP Life Global

Oracle & Database

- Oracle 9i SQL — SQL Star International
- Oracle 9i Forms Developer — SQL Star International
- Oracle 9i PL/SQL Programming — SQL Star International
- ASP.NET using C# — CMC Limited