Surajit Das
Database Developer

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BIO

As an accomplished IT professional with over three years of experience, I specialize in database development and management, with expertise in PL/SQL, PostgreSQL, and MySQL. Since earning my B.Tech in Computer Science in 2021, I have led and executed complex database projects, including migrations and cloud deployments. My experience is complemented by a strong command of Agile methodologies, which I use to enhance project efficiency and adaptability. Proficient with tools such as DataGrip, DBeaver, Azure Studio, and JIRA, I have consistently delivered scalable, high-performance solutions in dynamic environments.

In addition to my technical skills, I hold Google IT Support and Google UX Design certifications, which allow me to blend technical and user experience insights. My passion for emerging technologies and HCI drives me to stay updated with industry trends and contribute to innovative, user-focused, and sustainable solutions.

EXPERIENCE

- **Adapt Ready** / Nov, 2021 – Present
  - **Database Engineer**

    Database Development - Database Management - Query Optimization - Data Integrity - Performance Tuning- Migration Tasks - Data Visualization - Testing - Security - Scalability - Debugging - Data Cleaning - Cross-functional Team Collaboration - Project Leadership

- **Tata Consultancy Services Limited** / Oct, 2021 – Nov, 2024
  - **PL/SQL Developer -** TCS BaNCS

    Advanced PL/SQL Development - Comprehensive Database Management - Query Optimization and Tuning - Data Integrity and Security - System Performance Optimization - Database Migration Expertise - BFSI Sector Proficiency - Regulatory Compliance & Governance - Scalability and System Growth - Technology Trends and Best Practices - Cross-functional Team Collaboration - Leadership in Project Execution

  - **Database Developer -** GE Renewables

    Strategic Business Analysis - Expertise in PostgreSQL - Advanced SQL Skills - Data-driven Insights and Analytics - Business Process Optimization - Strong Analytical Acumen - Decision-making Support through Data Analysis - Database Design and Management Excellence - Ensuring Data Accuracy and Accessibility - Leadership in Cross-functional Teams - Project Efficiency and Process Improvement - Enhancing Operational Efficiency

  - **Backend Engineer -** Walmart Global Tech India

    PL/SQL - Database Design - Data Manipulation - Error Handling - Query Optimization - Performance Tuning - Continuous Integration/Continuous Deployment (CI/CD) - Version Control Systems - Unit Testing - Debugging - Problem-solving Skills - Analytical Thinking

- **Wipro Limited** / May, 2021 – Oct, 2021
  - **Backend Engineer -** Alight Solutions

    PL/SQL Development - Database Management - Query Optimization - Data Integrity - System Performance - Migration Tasks - Compliance - Security - Scalability - Technology Trends Awareness - Best Practices Implementation - Cross-functional Team Collaboration - Project Leadership

Programming Languages

- SQL, PL/SQL
- Bash Scripting
- C/C++
- Python

UI/UX Design

- User Research and Wireframing
- Prototyping

Software Development

- Object-Oriented Programming
- Software Design Patterns
- Testing & Debugging
- Agile Methodologies
- Software Documentation
- API Design & Development
- Data Modeling & Database Design
- Data Migration & Data Visualization

DevOps and Project Management

- Continuous Integration/ Continuous Deployment (CI/CD)
- Version Control Systems (Git)

Database Technologies

- Oracle
- PostgreSQL
- AWS S3

- ## Successful Cloud Migration:
  Successfully migrated complex datasets from PostgreSQL to Oracle Database, enabling seamless access, improving data retrieval times by 25%, and reducing storage costs by 20% through optimized data management strategies.

- ## Optimized PL/SQL Queries:
  Reduced average query execution time by significant margin through advanced optimization techniques like implementing dynamic queries, less context switching, significantly reducing load and improving database performance.

- ## Automated Database Backup Solution:
  Created automated bash scripts to streamline daily database backups, cutting manual effort by 80% and enhancing data integrity. The scripts efficiently handle incremental and full backups, compress the files, and securely transfer them to cloud storage. This automation not only saved significant time for the database team but also ensured continuous protection of critical data against hardware failures and accidental deletions.

- ## Agile Project Efficiency:
  Employed Agile methodologies to drive efficient project management, consistently delivering projects on time and with optimal resource utilization.

Google UX Design Professional Certificate - Google

- **Skills:** User Experience Design, User Research, Responsive Web Design, Wireframing, Prototyping
- **Tools:** Figma, Adobe XD, Sketch

Machine Learning - Stanford University

- **Skills:** ML Fundamentals, Python Programming for ML, Data Manipulation and Feature Engineering, Model Selection and Evaluation
- **Tools:** Jupyter Notebook, Google Colab, Python IDE, Scikit-learn, NumPy, TensorFlow

Google IT Support Professional Certificate - Google

- **Skills:** Operating Systems, Automation, Tuning, Troubleshooting, Hardware Configuration, Data Security, System Administration
- **Tools:** Linux, Windows, MacOS

Introduction to Cybersecurity Tools & Cyber Attacks - IBM

- **Skills:** CIA Traid, Access Management, Incident Response
- **Tools:** Firewalls, Antivirus Software, Cryptography, Penetration Testing, Digital Forensics

Python Programming - University of Michigan

- **Skills:** Variables, Data Types, Operators, Control Flow, Functions, Data Structures
- **Tools:** IDLE, Jupyter Notebook

1. Facial Expression Recognition

   Requirements: Data Preparation, Model Building, Training, Evaluation

2. Calculator Application

   Requirements: I/O Operations, Error Handling, Mathematical Logic

3. Limit Order Book for Trading

   Requirements: Data Structures (Order, Limit Price Buckets), Order Matching Logic, Order Book Updates, Trade Execution

4. Portfolio Website

   Requirements: UI Design, Web Hosting, CMS, Version Control System

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- Harishchandrapur High School - Malda / Jan, 2009 - Dec, 2010
  - Secondary - Science

    Grade: A+
    Activities and Societies: Cricket Team, Running Club, Drummer

- Umesh Chandra Basuhara Vidyalaya - Malda / Jan, 2011 - Jun, 2017
  - Higher Secondary - Computer Science

    Grade: A
    Activities and Societies: Cricket Team, Running Club, Football Team, Guitarist

- University of Engineering & Management - Jaipur / Jul, 2017 - Jun, 2021
  - Bachelor of Technology - Computer Science Engineering

    Grade: A+
    Activities and Societies: Hackathon Team, Cultural Club, Guitarist, Festival Organizer

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