Sayan Roy

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Summary

Technical Project Manager with 6 years of professional experience architecting enterprise-grade relational database systems. Expertise in PostgreSQL administration and advanced **PL/pgSQL** programming. Proficient in troubleshooting and resolving technical issues related to databases and distributed computing environments.Equally skilled in developing web-based Enterprise applications using **Node.js, Express.js, PostgreSQL, and MongoDB**, with hands-on experience in database provisioning, schema design, query optimization, and ETL processes. Adept at advocating for customer needs and implementing scalable solutions for efficient database and application performance, with an emphasis on clean code.

Skills

- **Database Technologies**: PostgreSQL, MongoDB, MySQL
- **Programming & Automation**: PL/pgSQL, JavaScript, Shell scripting, Pentaho, Apache Hop, CRON
- **DevOps & CI/CD**: GitLab CI/CD, OpenProject
- **Web Development**: Node.js, Express.js, RESTful APIs
- **Server Management**: Nginx, Tomcat, Linux
- **Project Management**: Agile methodologies, sprint planning, stakeholder communication

Current Responsibilities

- Troubleshoot and resolve database-related issues, ensuring optimal performance, availability, and security.
- Advocate for customer needs by collaborating with cross-functional teams to resolve critical technical challenges.
- Develop, optimize, and maintain complex SQL queries, stored procedures, triggers, materialized views, indexing strategies, and data partitioning techniques.
- Implement database replication and clustering strategies to enhance high availability and scalability.
- Ensure data security by enforcing role-based access controls and implementing disaster recovery solutions.
- Manage multiple databases, ensuring integrity, availability, and security in various environments.
- Develop and deploy RESTful APIs for seamless backend-frontend integration across multiple modules.
- Maintain **ETL pipelines** between cross-platform applications and third-party data hosts, ensuring data integrity and scheduling with **Carte Server** or CRON.
- Configure and maintain Nginx and Tomcat servers for application deployment in Linux environments.
- Administer version and release control via GitLab, ensuring structured code management and efficient approvals.
- Organize daily Scrum meetings with teams and weekly business reviews with stakeholders to ensure project alignment.
- Oversee the productivity and effectiveness of a 10-member development team, assigning tasks, setting deadlines, and monitoring progress.

Experience

Mu Sigma Inc.

Apprentice Leader • Bengaluru, Karnataka   12/2022 - Present

- Architected database solutions for high-performance enterprise applications, reducing query execution time by 30%.

- Spearheaded the migration of a financial suite application to the PERN stack, enhancing user experience and operational efficiency.
- Developed ETL pipelines for seamless data synchronization across platforms and third-party hosts, ensuring real-time data availability.
- Collaborated with stakeholders to define project goals, ensuring successful delivery of quality solutions.

Mu Sigma Inc.

Trainee Decision Scientist / Sr. Developer • Bengaluru, Karnataka   11/2019 - 11/2022

- Migrated legacy systems to PostgreSQL, designing efficient schemas to support new business requirements.
- Designed and implemented NoSQL solutions using MongoDB for document and image storage.
- Engineered tools for automating backups, recovery, and capacity scaling to reduce manual workload.
- Streamlined reporting and analytics processes using advanced SQL techniques and automated pipelines.

Nielsen India Pvt. Ltd.

Consultant • Kolkata, West Bengal   04/2019 - 10/2019

- Conducted detailed data analyses for government programs, delivering actionable insights to drive improvements.
- Automated data processing workflows using **Excel VBA**, reducing manual intervention and errors.
- Prepared comprehensive assessment reports with data visualizations for stakeholder decision-making.

Education

St. Xavier's College (Autonomous)

M.Sc. in Computer Science • Kolkata, West Bengal   06/2019

- Graduated with 7.18 CGPA (First Class)
- Served as the Chief Website Developer of eXabyte'19 – The annual tech fest of the Dept. of Computer Science.

Vidyasagar College (Calcutta University)

B.Sc. in Computer Science • Kolkata, West Bengal   06/2017

- Graduated with Honors (First Class)
- Served as the Editor of ENCODE'17 – The annual digital magazine of the Dept. of Computer Science

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Languages

English, Bengali, Hindi

Certifications & Awards

- SQL(Advanced) Certification by HackerRank
- Earned 2x SPOT Award and 1x IMPACT Award at Mu Sigma for leadership and development excellence.
- Finalist in Nielsen Store Transaction Imputation Hackathon (TechGig)
- Winner of coding competitions (XHunt, CyberTrek) at St. Xavier's College, Kolkata.