

LUTHFI FARABI

Senior Database Engineer & DBA | Cloud Infrastructure | Data Engineering | AI-Assisted Automation

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PROFESSIONAL SUMMARY

Results-driven Senior Database Engineer & DBA with 10+ years of experience managing multi-database fleets (MySQL, PostgreSQL, MongoDB) at terabyte scale across cloud infrastructures (Alibaba Cloud, AWS). Proven track record of cutting infrastructure costs by 30-55%, architecting near-real-time data pipelines (OLTP to Data Warehouse), and pioneering AI-assisted automation (LLM-based tooling via Claude and Model Context Protocol) to reduce routine DBA toil. Maintains high availability and zero downtime through replication management, connection pooling, and disaster recovery planning. Remote-ready, with experience leading cross-timezone initiatives using async English communication and distributed team collaboration.

CORE SKILLS

Databases: MySQL, PostgreSQL, MongoDB, MariaDB, Oracle

Cloud & IaC: Alibaba Cloud (RDS, ApsaraDB, DAS, DTS, DMS), AWS (EC2, RDS, S3, CloudWatch), Terraform

Data Engineering: ETL/ELT Pipelines, CDC (Debezium), Near-Real-Time Streaming (OLTP to DWH), Data Warehouse Design

Observability: Datadog, Grafana, Prometheus, Mimir, New Relic, PagerDuty

Automation & AI: Bash, Python, Docker, CI/CD Pipelines, Claude + MCP, Jira/Confluence Automation

Reliability & HA: PgBouncer, Streaming/Logical Replication, Failover & DR Planning, Point-in-Time Recovery, Backup Tooling (pg_basebackup, barman, mysqldump/xtrabackup), Zero-Downtime Migrations, Connection Pool Management

Performance Tuning: Query Plan Analysis (EXPLAIN/ANALYZE), Index Optimization, work_mem/buffer Tuning, Slow Query Log Analysis

PROFESSIONAL EXPERIENCE

Senior DBA | PT Mid Solusi Nusantara (Mekari) - Indonesia's #1 SaaS Company

March 2025 - Present

- Engaged as Senior DBA at a larger-scale SaaS organization (Indonesia's #1 SaaS company), focusing on deep PostgreSQL/MySQL administration and AI-assisted automation across a significantly larger multi-tenant database fleet than prior roles.
- Administer and scale a multi-database fleet using Alibaba Cloud (RDS, DAS, DTS, DMS), ensuring high availability and zero data loss across production systems.
- Architect and refine logical data models for large-scale SaaS applications supporting both RDBMS and NoSQL workloads.
- Lead query performance tuning and cost optimization, achieving a 30% reduction in Alibaba RDS infrastructure costs through right-sizing, index optimization, and storage tiering.
- Perform complex zero-downtime database migrations and author automated maintenance scripts, eliminating manual operational toil.
- Pioneered GenAI integration: led adoption of Claude + Model Context Protocol (MCP) workflows to automate Metabase report generation and Alibaba CLI operations, reducing DBA toil by ~40%.

Data Engineering & Architect Lead | PT Koltiva - AgriTech Platform (Global Operations)

July 2024 - March 2025

- Led a cross-functional team of Data Engineers and DBAs to deliver data infrastructure projects on tight timelines across multiple time zones.
- Designed and implemented a near-real-time data streaming pipeline from OLTP systems into a centralized Data Warehouse (DWH), enabling faster analytical reporting and business intelligence.

- Implemented comprehensive observability across the database fleet using Datadog, Grafana, and AWS CloudWatch, eliminating monitoring blind spots and reducing MTTR by ~35%.
- Directed data security assessments ensuring zero confidential customer data leaks; assisted compliance team with full audit trails for regulatory requirements.
- Delivered strategic cost recommendations to management - identified and executed a 40% reduction in AWS RDS operational costs through instance optimization and reserved capacity planning.

Database Engineer Lead | PT Investree Radhika Jaya - Fintech Lending Platform

April 2021 - February 2024

- Promoted from Senior DBA to Database Engineer Lead to own data operations strategy and manage a team of engineers.
- Built and maintained CI/CD-integrated database deployment pipelines, standardizing schema migration workflows and reducing release-day incidents.
- Designed robust backup, point-in-time recovery, and DR plans, achieving 99.9% uptime and reliable RTO/RPO targets in a regulated fintech environment.

Senior DBA | PT Investree Radhika Jaya - Fintech Lending Platform

April 2019 - March 2021

- Wrote Bash scripts and cron jobs to automate sensitive data extraction, masking, and critical server alerting, cutting manual operational toil significantly.
- Key Achievement: Resolved a critical PostgreSQL production incident caused by connection memory exhaustion (server RAM pinned at 95% due to excessive per-connection memory consumption) - implemented PgBouncer connection pooling, work_mem tuning, and surgical index plans to cut per-query memory footprint, stabilizing production within 2 hours and preventing potential data loss.

System Engineer | REA Group Asia (rumah123.com) - Property Portal

August 2018 - March 2019

- Configured and managed AWS infrastructure (EC2, RDS, S3, ELB) with robust security groups and KMS encryption.
- Containerized web applications using Docker and set up automated alerting pipelines via PagerDuty and New Relic.
- Key Achievement: Conducted index surgery and query redesign (removing filesorts on LATERAL JOINS) combined with connection-pool management, delivering a 40-55% reduction in cloud database bills.

Staff Database Administrator | PT Web Marketing Indonesia (rumah123.com)

February 2016 - July 2018

- Installed, configured, and maintained MySQL, Cassandra, and Solr database servers for a high-traffic property portal.
- Managed user access permissions, query tuning, and daily data provisioning for engineering teams.

Technical Quality Assurance | PT Adidata (Project: PT Bank Mandiri)

April 2015 - January 2016

- Planned and conducted rigorous testing of product deliverables to ensure compliance with enterprise banking standards.

Staff Database Administrator | PT Collega Inti Pratama

July 2013 - December 2014

- Maintained Linux and AIX servers, providing critical data center operations support for production systems.
- Managed Sybase and DB2 database servers, including daily health checks, backup verification, and troubleshooting of replication and job-scheduling failures.

EDUCATION

Bachelor of Computer Science | Budi Luhur University, Jakarta

2009 - 2013