Leah Gustafson

Database Engineer

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Summary

Database engineer with 5 years of experience designing and running PostgreSQL, MySQL and MongoDB on AWS for e-commerce and payments companies. Builds schemas, migrations and Python automation, handles performance tuning for queries that serve 30,000 requests a second and keeps replicas, backups and failover tested. Works closely with Java and Python developers on database design.

Experience

Database Engineer

04/2024 - Present

Willamette Commerce Cloud Portland, OR

Online store platform hosting 18,000 merchant shops.

- Run **40** PostgreSQL and MySQL clusters on AWS RDS and EC2 that serve 30,000 queries a second at peak.
- Design schemas and review 25 migrations a month with Java developers, blocking changes that would lock large tables.
- Build Python tools for failover tests and backup checks, cutting manual on-call work by 10 hours a week.
- Tune queries with EXPLAIN plans and table partitioning, lowering p95 checkout latency from 180 ms to 70 ms.

Database Administrator

06/2021 - 03/2024

Rose City Payments Portland, OR

Card payment processor for 12,000 small merchants.

- Managed 25 MySQL and MariaDB servers on Linux handling 4 million card transactions a day.
- Set up MongoDB replica sets for the fraud team's event store, holding 2 TB with zero data loss events.
- Wrote Bash and PowerShell scripts that automated patching across 25 servers during monthly maintenance windows.
- Restored a corrupted ledger table from point-in-time backups in 35 minutes, well inside the 2-hour target.

Education

Bachelor of Science

05/2021

Portland State University Portland, OR

Computer Science

Skills

- PostgreSQL
- MySQL
- MongoDB
- AWS
- Python
- SQL
- Bash
- Linux
- Database Design
- Performance Tuning