

# Polina M.

## DATABASE ENGINEER

### Education

Computer Science and Software Engineering

### Language proficiency

English — B2

### Domains

E-commerce,  
Media

### DBA/DB developer with 4 years of experience.

A DBA/DB developer with 4 years of experience. Mostly work with MySQL and PostgreSQL under Linux. My role includes providing HA, performance tuning, database stress testing.

### Cloud

AWS (EC2, S3, RDS).

### Databases

Oracle Database, MySQL, PostgreSQL, MongoDB.

### Programming/Scripting languages

Bash, SQL, Pg/SQL.

### IaC

Terraform, Ansible.

### Containerization/Orchestration

Docker, Docker Compose.

### Operating Systems

Linux(CentOS, Ubuntu).

### Source control systems

Git, GitLab.

### Virtualization

VirtualBox, ProxMox.

### Monitoring/Logging

Grafana, Zabbix.

### High Availability

PostgreSQL/patroni.

### Migration tools

Ora2pg.

## Collaboration tools

Atlassian Stack (Jira, Confluence).

# Achievements

## Database migration

Migration from Oracle Database to PostgreSQL ensured reduction of licensing to 0.

## Database administration

Timely retrieval of the required data for the requested period despite the loss of user access to the database under conditions of uninterrupted database operation, enabled the successful completion of the sprint and saved 40 person-hours compared to the previous information recovery scheme.

## Infrastructure management

The implementation of Infrastructure as Code (IaC) concept and the utilization of its tools reduced infrastructure deployment time by 3 times.

# Projects

## DATABASE MIGRATION

Worked on a project, where main responsibilities was ensuring a seamless transition from Oracle Database to PostgreSQL.

### Project roles

Database Administrator/Database Developer

### Period

07.2022 - till now

### Responsibilities

- Developing and planning migration processes from Oracle database to PostgreSQL database via Ora2pg;
- Implementation and support of high availability using PostgreSQL/patroni;
- Creating and deploying strategies for database backup and recovery to reduce the risk of data loss and minimize downtime;
- Monitoring and analyzing system and application logs for performance optimization via Grafana;
- Managing Docker images, containers and networks to streamline deployment of database services;
- Enhancing performance and responsiveness by optimizing database structures, queries, and indexing;
- Deploying database replication to improve availability and enhance fault tolerance
- Providing data integrity check.

### Environment

PostgreSQL, PostgreSQL/patroni, Oracle Database, Docker/Docker Compose, Linux(Ubuntu), Ora2pg, Git, Terraform, Zabbix, Grafana, Jira, Confluence.

## E-COMMERCE PLATFORM

Scalable database architecture capable of handling vast quantities of product data from diverse geographic locations. The project involved data migration, ensuring seamless data synchronization across multiple servers, and implementing efficient caching mechanisms.

### Project roles

Database Administrator/Database Developer

### Period

10.2020 - 07.2022

### Responsibilities

- Installing, configuring, and maintaining MySQL database systems;
- Managing Docker images, containers, and networks to streamline deployment of database services;
- Writing Bash scripts for automating routine database maintenance tasks;
- Performing Linux server administration, including user management, security;
- Setting up Grafana dashboards for monitoring MySQL performance;
- Participating in database code reviews and performance tuning;
- Implementing and maintaining high availability solutions for MySQL in Amazon RDS databases;
- Collaborating with developers to design and implement database schemas;
- Integrating database backups and data exports with Amazon S3 for efficient storage, retrieval and management of large datasets;
- Executing schema migration activities, ensuring compatibility between source and target database structures.

### Environment

AWS (EC2, S3, RDS, Secrets Manager, Lambda), MySQL, Docker/Docker Compose, Bash, Linux, Git, VirtualBox, Grafana, Jira, Confluence.

## MEDIA APPLICATION

Designing a database schema that efficiently stored and retrieved multimedia content metadata. The project involved optimizing database configurations for rapid content delivery, implementing secure access controls, and ensuring seamless integration with analytics tools.

### Project roles

Database Developer

### Period

11.2019 - 10.2020

### Responsibilities

- Configuring and optimizing Percona xtraDB Cluster instances for performance and scalability
- Developing and maintaining scripts for data migration and transformation
- Developing and maintaining recovery strategies for MySQL databases
- Regularly testing backup integrity to ensure data resilience
- Deploying and managing virtual machines on Proxmox for development, testing, and staging database environments
- Monitoring and analyzing system and application logs for performance optimization
- Configuring Proxmox for high availability to ensure continuous availability of database services
- Ensuring database availability through strategies clustering and failover mechanisms
- Creating detailed documentation for team members and stakeholders via Jira/Confluence.

### Environment

MySQL, Terraform, ProxMox, Git, Grafana, Zabbix, Linux(CentOS, Ubuntu), Bash, Jira, Confluence, MySQL Percona xtraDB Cluster.

# Professional skills

SKILLS		EXPERIENCE IN YEARS	LAST USED
Clouds	AWS	1	2023
Databases	MySQL	2	2022
	PostgreSQL	4	2024
	MongoDB		
	Oracle	1	2024
High availability	PostgreSQL/patroni	1	2024

SKILLS		EXPERIENCE IN YEARS	LAST USED
Programming/ Scripting languages	Bash	2	2024
	SQL	4	2024
	pg/SQL	4	2024
IaC/CM	Terraform	2	2024
	Ansible	1	2024
Containerization	Docker/Docker Compose	2	2024
Operating Systems	Linux	4	2024
Virtualization	ProxMox	4	2024
	VirtualBox	4	2024
Monitoring/Logging	Grafana	2	2024
	Zabbix	2	2021
Source Code Management Systems	Git	4	2024
Collaboration tools	Atlassian Stack (Jira, Confluence)	4	2024