MYSQL
TEAM RESUME

Pythian
love your data®

When critical technical issues arise, you need swift and effective resolutions from knowledgeable experts. Pythian's MySQL team brings years of experience to each issue we face. We're deeply invested in delivering the most relevant and up-to-date technology solutions to support your business objectives.

SKILLS AND EXPERIENCE

- Comprehensive project analysis, design, and development
- Database design, indexing, and coding strategies
- Configuration and performance benchmarking and optimization
- High scalability (horizontal scaling, sharding (partitioning))
- High availability (Replication, Topology Managers, Database Proxies)
- Database security and encryption
- Operational Visibility: ensuring accurate monitoring and performance trending of mission-critical environments.
- Process automation through advanced script writing
- Version upgrades, server migrations, and consolidations

AREAS OF EXPERTISE

- Storage engines (MyISAM, InnoDB, XtraDB, RocksDB, and more)
- MariaDB
- PerconaServer
- MySQL Replication (Async, SemiSync, GTID, Tungsten Replicator)
- Galera Cluster (all variations)
- MySQL Cluster (NDB storage engine, InnoDB Group Replication)
- Topology Managers (MHA, Orchestrator, Continuent Tungsten)
- Database proxies (ProxySQL, MaxScale, HAProxy)
- Database authentication (Vault, LDAP)
- Monitoring tooling (PMM, DataDog, VividCortex, NewRelic, and more)
- MySQL Enterprise Monitor
- MySQL Enterprise Backup
- Cloud expertise: AWS, GCP
- Automation: Ansible, Chef, Puppet

PROGRAMMING LANGUAGES

- SQL
- Python
- Java
- JavaScript
- C/C++
- Bash
- Perl
- PHP

CERTIFICATIONS

- MySQL Cluster Certified Expert
- MySQL Database Certified Professional
- MySQL Developer Certified Professional
- MariaDB Certified Professional
- AWS Certified Associate: Solutions Architect, Developer
- GCP Certified Professional: Cloud Architect, Data Engineer

PROJECTS COMPLETED

- Created initial infrastructure for MySQL databases, including architecture, monitoring, backup strategy, capacity planning, and server upgrades; server upgrades including all versions from 4.0 through current.
- Designed and implemented a partitioning scheme for a multi-terabyte database used for analytics application.
- Large-scale data modeling project to consolidate health claims data for 14 TB partitioned database, tracking proposed changes, analyzing the impact, and consulting on performance issues.
- Provisioned and monitored hundreds of MySQL servers across geographically distributed architecture using replication and VIPs; provided 24 x 7 support for database servers, including addressing hardware and operating systems issues affecting the servers, performance and tuning, backup and recovery.
- Designed a reliable InnoDB database to handle thousands of intranet queries per minute, archiving and historical data management for the corporate Webmail application, and complex report generation.
- Migration from Amazon RDS to Amazon EC2 for a national education organization offering online resource collaboration services. Implemented fully automated configuration management and deployment using Ansible.
- Managed database operations for the Presidential campaign. MySQL support in Amazon RDS and multi-region EC2. Operational support, change and release management, emergency needs 24x7 and real-time support to ensure the success of campaign database operations.
- Design, implementation, and support for sharded MySQL RDS environment with MHA providing high availability shard clusters, configuration management with OpsWorks, and automation providing for an automated server build, shard splits, code deployment, schema consistency and data protection.
- Design, implementation, and support for geographically distributed MySQL environment on Google Cloud Platform, leveraging HAProxy and Orchestrator for topology management.

SELECT CLIENTS

- WePay
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ABOUT PYTHIAN

Pythian excels at helping businesses around the world use data and the cloud to transform how they compete and win in the data economy. From cloud automation to machine learning, Pythian leads the industry with proven innovative technologies and deep data expertise. For more than 20 years Pythian has built its reputation by delivering solutions to the toughest data challenges faster and better than anyone else.

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