

Scott Vranesh-Fallin

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SUMMARY

I am a seasoned IT professional with over 20 years of experience in the LAMP stack, combining advanced Linux, Apache, MySQL, and PHP development with robust expertise in Linux and MySQL administration. My passion lies in leveraging open-source technologies to deliver scalable, secure, and efficient solutions tailored to business needs.

Throughout my career, I've honed a deep understanding of system architecture and database management, complemented by a broad technical toolkit that includes:

- Operating Systems: Linux (various distributions), Solaris, Windows, and MacOS
- Databases: MySQL and PostgreSQL, with a focus on performance tuning, replication, and backup strategies
- Scripting & Programming: Bash, Python, and Ruby, enabling seamless system integrations and automation
- Automation Tools: Ansible and Chef, streamlining deployment processes and reducing operational overhead

I thrive in dynamic environments where collaboration and innovation drive success. Whether it's optimizing database performance, architecting automation pipelines, or troubleshooting complex systems, I bring a solution-oriented mindset and a commitment to excellence.

EXPERIENCE

Credit One Bank
System Engineer II

Las Vegas, Nevada
APRIL, 2020 - MARCH, 2024

- Served as subject matter expert for the database team's experiments with MySQL in general and MySQL clustering in particular.
- Patching and deployment of EDB Postgres.
- Wrote Ansible scripts specific to the deployment R Studio for enterprise in support of the new data science team.
- Supported executive initiatives with data crunched and displayed in Jupyter notebooks.
- Managed 1400 VMs and 300 bare metal servers, running Red Hat Enterprise Linux with Ansible and Satellite.
- Patching and deployment of Red Hat Enterprise Linux.
- Developed RESTful APIs with members of the Oracle DBA team.
- As a cost-saving measure, DBAs and developers were provided with Microsoft SQL Server containerized and running on RHEL hosts.. This project continued to include MySQL and PostgreSQL inside Docker (and later, Podman) containers.
- Scripting, in Python, for the purpose of migrating from Microsoft SQL Server to EDB Postgres.
- Engaged in secure decommissioning of old hardware and migrating applications and services from it to newly deployed hardware.
- Worked fairly deeply with the infrastructure's F5s.
- Assisted the network team in deploying new Wi-Fi infrastructure.
- Supported junior database administrators by optimizing their EDB Postgres queries.
- Managed the Linux Team's code remediation efforts, delegating remediation tasks to other team members as well as to myself. We averaged remediating 600 vulnerabilities a moth.
- Served as the Linux Team's liaison to the Kubernetes Team, taking an active role in building out Kubernetes pipelines.

CG Technology
Database Administrator

Las Vegas, Nevada
JUNE, 2016 - MARCH, 2020

- Performed large-scale database design, implementation, and administration of 500+ MySQL servers on RHEL hosts and 100 MS SQL Servers on Windows hosts.
- Successfully migrated all of the RHEL 6 servers the MySQL instances ran on to RHEL 7 for security and compliance reasons.
- Built a large-scale MySQL cluster and migrated all data to it.
- Wrote custom reports for high-level overview, using Ruby.
- Engaged in large-scale replication of data.
- Maintained database security and compliance in accordance with the Nevada Gaming Commission
- Exposed gaming odds data via RESTful API..
- Scripting, in Ruby, to migrate from Microsoft SQL Server to MySQL.
- Provided a read-only system for internal reporting for the accounting and compliance staff and management.
- Re-architected the existing database to better suit clusterization.
- Developed the backend architecture for the CG Sports betting smart phone application.
- Managed physical database servers housed in a remote datacenter (Switch) as well as the in-house datacenter.
- Migrated database services to the cloud as compliance allowed.

DMA Financial
MySQL Database Administrator

Las Vegas, Nevada
MAY, 2011 - APRIL, 2016

- Tasked with the administration of 190 MySQL nodes and 23 Microsoft SQL Server nodes.
- Patched and maintained the servers for security and compliance.
- Instituted and built out a data warehouse as the first step in forming a business intelligence team.
- Wrote queries and reports in support of high-level executive review.
- Initiated and built out a large-scale MySQL cluster of 100+ nodes.
- Assisted a team of 5 developers with SQL query optimization and creation on a regular basis.
- Deployed and supported a LAMP stack for development, staging, and production environments.
- Developed a database back-up routine and tested it monthly to ensure accuracy.
- Developed the architecture for a customer-facing smartphone application for the customer's monitoring of his or her account.

PROJECTS

Hardball Think Tank (Ruby, PERL, MySQL, Javascript)

- This was a project to consume data provided by Major League Baseball and keep a MySQL database updated with it. Ruby was used to communicate with the MLB API and consume the data, transforming it into pitch location maps, hit ball heatmaps, etc.
- Data was made available for the public to play with through the use of Javascript.

FOREX | Crypto Trading Dashboard (Python, PostgreSQL)

- Created a dashboard with which users could see up-to-the-minute exchange rates of world currencies and crypto currency, with economic model overlays.
- Python was used both to consume the various currency APIs as well as to display the data in a browser in a pleasing way.

kha0S Linux (C/C++, Assembly, PERL)

- kha0S was a distribution of the Linux operating system that aimed to be ultra-secure out of the box.
- The project had a particular focus on the hardening of open source databases such as MySQL and PostgreSQL.
- Cryptography was integrated with the distribution as was the ability to send all network traffic through TOR with a flip of the switch.

SKILLS

PostgreSQL, MySQL/MariaDB, MS SQL Server, Oracle EDB, SQL Optimization Database Backup and Recovery, Linux, (Red Hat and Debian/Ubuntu), Windows, Macintosh, SQL, Ruby, Python, PERL, PHP, Bash, Nginx, Apache, Containerizing Databases in Docker and Podman, Cybersecurity, A.I. (GPT and Copilot), AWS, Azure

CERTIFICATIONS

Oracle Certified Professional, MySQL 8.0 Database Administrator - *Expected 02/2025*

EDUCATION

Chabot College, Hayward, California - *A.A. in Interdisciplinary Studies in Letters and Sciences*

- *Minor: Computer Science* - Coursework: relational databases, operating systems, algorithms, cybersecurity.