Scott Vranesh-Fallin

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SUMMARY

I am a seasoned IT professional with over 25 years of experience in free and open-source technologies, combining advanced Linux, Apache, MySQL, and PHP development with robust expertise in Linux and MySQL and PostgreSQL administration. My passion lies in leveraging open-source technologies to deliver scalable, secure, and efficient solutions tailored to business needs.

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.

SKILLS

- computer netowrking
- VMware vSphere
- Red Hat Enterprise Linux
- Ansible Tower
- Red Hat OS upgrades
- Storage systems (EMC)
- Tomcat & WebLogic
- BIND/Network Services
- Kubernetes
- PostgreSQL
- PHP
- Bash
- SQL Server
- notworking infrastructure
* SAN (Hitatchi)
- Red Hat Satellite
- Red Hat Automation Platform
- Ubuntu OS upgrades
- Apache Webserver
- High availability (HA) Proxy
- GitHub and GitLab
- Working knowledge of Oracle
- Disaster Recovery
- Python
- C/C++
- T-SQL
- Cisco & F5 experience
- Cloud technologies (AWS)
- Ansible playbooks
- Service-Oriented arch. (SOA)
- Windows OS upgrades
- Nginx Webserver/Reverse Proxy
- load balancers
- Docker and Podman
- MySQL/MariaDB
- Database clustering
- Ruby
- GT.M/MUMPS
- ETL db operations

EXPERIENCE

Vranesh-Fallin Consulting — Las Vegas, Nevada
Consultant — MARCH, 2024 - PRESENT

- Served as subject matter expert in a project to migrate data from SQL Server to MySQL.
- Led a team of 6 database administrators in day-to-day database operation, including replication and clustering of MariaDB nodes.
- Completed the migration of 400 physical hosts from Red Hat Enterprise Linux 7 to Red Hat Enterprise Linux 9, along with upgrading all the 3rd party software that ran on top of it.
- Completed the migration of 100 physical hosts from Red Hat Enterprise Linux 9 to Red Hat Enterprise Linux 10. Upgraded Apache Tomcat at the same time.
- Engaged in creating MySQL clusters.
- Administration of various NoSQL applications.
- Developed RESTful APIs for clients.
- Python development

Credit One Bank Las Vegas, Nevada
System Engineer II APRIL, 2020 - MARCH, 2024

- Served as subject matter expert for the database team's experiments with MySQL in general and MySQL clustering in particular.
- Completed the migration of 500 physical hosts and 2,000 virtual hosts from Red Hat Enterprise Linux 7 to Red Hat Enterprise Linux 0.
- Led a team of 5 Red Hat Linux administrators in an enterprise-wide code remediation effort.
- Patching and deployment of EDB Postgres.
- Wrote Ansible scripts specific to the deployment of 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.
- Configured and administered GT.M/MUMPS database.
- 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 month.
- Served as the Linux Team's liaison to the Kubernetes Team, taking an active role in building out Kubernetes pipelines.
- Migrated Puppet and Chef scripts to Ansible for building Red Hat Enterprise Linux systems.

CG Technology Las Vegas, Nevada
Database Administrator 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 top of 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 smartphone 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.
- Migrated Chef and Puppet build services to Ansible on Red Hat Enterprise Linux.

DMA Financial Las Vegas, Nevada
MySQL Database Administrator MAY, 2011 - APRIL, 2016

- Tasked with the administration of 190 MySQL nodes and 23 Microsoft SQL Server nodes.
- Led a cross-functional team of 7 developers and administrators in day-to-day development and database administration of a custom payday loan application.
- 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 regularly.
- 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.
- Worked with Puppet to build Red Hat Systems.

PROJECTS

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.
- While it was using the Linux kernel and GNU utilities, it took inspiration from FreeBSD in that a single command could recompile the entire system.

Spidering Hacks, O'Reilly & Assoc.

- I contributed an article and accompanying PERL code for the purpose of spidering the web in search of blogs the user might be interested in.

EDUCATION

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

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