

René Bon Ćirić

Curriculum Vitae: AI/ML Infrastructure Engineer | MLOps Specialist | RHCE

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Location: Ixtlahuacán de los Membrillos, Jalisco, México

Executive Summary

Results-driven Red Hat Certified Engineer (RHCE) with 20+ years of experience, now specializing in AI/ML Infrastructure and MLOps. Proven ability to architect, deploy, and manage robust, scalable systems for demanding AI workloads. Combines deep expertise in Kubernetes, OpenStack, and large-scale data storage (Ceph) with hands-on experience deploying and managing the complete lifecycle of Large Language Models (LLMs), including data ingestion pipelines and vector databases. Seeking a role focused on building and operationalizing infrastructure that powers production AI/ML applications.

Professional Experience

EVALinux | Guadalajara, Jalisco, México *Principal AI/ML Infrastructure Consultant* | January 2005 – Present

Architected and executed high-impact infrastructure projects for a diverse global client base, with a recent focus on establishing environments for AI/ML development and deployment.

FOSS Consultant & Creative Commons Musician | January 2007 - Present

- Active contributor to the Free and Open Source Software (FOSS) community.
- Composer and performer of music released under Creative Commons licenses.

AI/ML Infrastructure R&D

Self-Directed | 2024 – Present

- Engineered and deployed a complete local LLM ecosystem, building a private, end-to-end generative AI platform.
- Deployed and served LLMs using Ollama, utilizing Open-WebUI to provide a secure, internal chat interface for model interaction.
- Built a scalable document ingestion pipeline using Apache Tika for data extraction, creating and storing embeddings in a PostgreSQL-based vector database (pgvector).
- Integrated CLI-based clients (qwen-code) for developer-focused AI interaction, ensuring a reproducible and scriptable environment.

Infotec (Federal Government of Mexico)

Cloud Infrastructure Consultant | April 2022 – March 2025

- Deployed and managed a highly available OpenStack environment on an OpenShift Container Platform (OCP) foundation, integrated with a standalone Ceph cluster for robust, scalable storage.
- Administered a Red Hat Identity Management (IdM) cluster and a Red Hat Satellite deployment for centralized system management, patching, and provisioning of over 60 RHEL, CentOS, and Debian servers.
- Engineered and maintained HAProxy clusters for high-availability load balancing of critical services.
- Fostered knowledge sharing through continuous mentoring of team members and clients, creating comprehensive documentation repositories that enabled self-sufficient operations and accelerated onboarding processes.

CloudSigma

Senior Systems Administrator | April 2015 – July 2021

- Engineered and scaled a global KVM/QEMU virtualization platform across 10 data centers, achieving 99.9% uptime.
- Deployed and maintained production Kubernetes clusters, providing the foundational orchestration layer for modern MLOps practices.
- Cultivated a collaborative environment by actively mentoring junior administrators and establishing shared documentation standards that improved team efficiency and reduced knowledge silos across distributed teams.

Key Project: CloudSigma v2.0 Implementation (Nov 2011 - Mar 2012)

- Designed and implemented the CloudSigma v2.0 infrastructure, a KVM/Qemu + libvirt stack for servers.
- Implemented GlusterFS for distributed storage after evaluating LustreFS, Ceph, and XtremeFS.
- Created a fully automated installation of a 20-server rack using Puppet, including SELinux configuration.
- Authored complete project documentation using Sphinx (RST).

Grupo QUID

Infrastructure Consultant | January 2013 – August 2018

- Architected and executed a full migration to a cloud-native infrastructure, resulting in a **90% reduction in operational costs** while simultaneously **increasing request capacity by 3000%**.
- Deployed and managed one of Mexico's first multi-master MariaDB Galera clusters, ensuring high availability and write scalability for critical database operations.
- Managed a 7-node Galera cluster, 4 application servers (PHP, Python, Node.js), and Nginx reverse proxies.
- Responsible for all security and monitoring aspects of the infrastructure.
- Enhanced team capabilities through ongoing technical mentorship and developed a centralized knowledge base that streamlined troubleshooting processes and promoted best practices adoption.

Expert Creations

Infrastructure Manager | January 2011 - April 2015

- Managed all servers for a hosting company with several hundred client websites.
- Infrastructure included 2 MariaDB servers, 4 application servers (Nginx, PHP), and 2 DNS servers.
- Reduced costs and resolved issues related to various applications (Redis, PHP, Let's Encrypt).

Technical Skills

- **AI / MLOps:** LLM Serving (Ollama), Vector Databases (pgvector), Data Ingestion (Tika), Model Deployment.
- **Cloud & Orchestration:** OpenStack, Kubernetes/OpenShift, KubeVirt, GCP; Private Cloud Deployment.
- **GNU/Linux:** RHEL, Fedora, CentOS, Gentoo, Arch; RPM packaging, systemd, server maintenance.
- **Configuration Management:** Ansible, Puppet, Terraform/OpenTofu, Packer.
- **SCM & CI/CD:** Git (GitLab, GitHub, Forgejo), Jenkins, GitLab pipelines.
- **Virtualization & Containers:** KVM/qemu, libvirt, Docker, Podman.
- **Storage:** Ceph/ODF, ZFS, Btrfs, StorPool, NFS.
- **Networking:** TCP/IP, DNS (BIND), DHCP (ISC), NTP, HAProxy.
- **Security:** SELinux, iptables/nftables, firewalld, encryption.
- **Programming & Scripting:** Bash, Python, Go, Rust, C/C++, PHP, Crystal.

Certifications

- Red Hat Certified Engineer (RHCE) - [Verification Link](#)
- Google Cloud Essentials & Core Infrastructure
- Developing a Google SRE Culture

Notable Projects

Founder of MxOS:

- <https://mx-os.mx/>

Co-maintainer of Google Go in Fedora:

- https://bugzilla.redhat.com/show_bug.cgi?id=652987
- <https://lists.stg.fedorahosted.org/archives/list/package-review@lists.stg.fedoraproject.org/message/KQCADPMJETQDFX6QS5Q2FQU5B7AR4QCD/>

Proposed and co-maintained MariaDB in Fedora:

- https://bugzilla.redhat.com/show_bug.cgi?id=875150
- <https://lists.stg.fedorahosted.org/archives/list/package-review@lists.stg.fedoraproject.org/message/OEKM5YWDC4ZD4YLJGJMIOJJACJAN4VDH/>

Initially packaged Bitwig Studio for Flatpak, Fedora, and Funtoo/Gentoo:

- <https://www.kvraudio.com/forum/viewtopic.php?t=512181&start=75&sid=9fb0c3562a0a76b513f5e1eec2>
- <https://www.kvraudio.com/forum/viewtopic.php?t=407679>
- https://www.funtoo.org/index.php?title=Package:Bitwig_Studio&action=history

Civitas: A government simulator written in Crystal, with or without LLMs:

- <https://gitlab.com/renich/civitas>

Shellmin: A CLI GNU/Linux manager written in Crystal:

- <https://gitlab.com/renich/shellmin>

sdcli: Generate images from the CLI using LLMs, written in Python:

- <https://gitlab.com/renich/sdcli>

Hello world written in Crystal for GCP Run:

- <https://gitlab.com/renich/gcp-run-helloworld-cr>