G Leela Venkaiah

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PROFESSIONAL SUMMARY

Backend Developer specializing in cloud-native storage solutions, Kubernetes orchestration, and distributed systems. Proven track record of designing and delivering scalable infrastructure for managed services on platforms like OpenShift and AWS. Passionate about debugging complex systems and contributing to open-source projects.

TECHNICAL SKILLS

Languages:	Go (Golang), Python, Perl
Cloud & Orchestration:	Kubernetes, Red Hat OpenShift, AWS, Terraform, Nomad
Storage Technologies:	Ceph, GlusterFS, TopoLVM, NVMe, LVM
Developer Tools & CI/CD:	Git, GitHub Actions, Jenkins, gRPC, Prometheus

PROFESSIONAL EXPERIENCE

IBM – Backend Developer Jan 2023 – Present

* Engineered core gRPC APIs for a Hub & Spoke storage model, a new architecture that centralized administration and cut new cluster deployment times by over 65%.
* Designed a secure, multi-tenant AWS networking architecture using Transit Gateways, VPC peering, private NAT, and centralized egress to support a new cloud service.
* Led the primary implementation (>50% of PRs) to converge multiple ODF modes, building a unified foundation for future multi-client support across thousands of production clusters.
* Acted as a key liaison for QE, managing build deliveries and leveraging domain expertise to resolve complex upgrade bugs, ensuring a smooth and timely release pipeline.

Red Hat – Senior Software Engineer Jul 2022 – Dec 2022

* Introduced a new low-cost 2TB managed service tier for RHODF, reducing the minimum storage footprint by 50% and making the product accessible to a wider customer base.
* Enhanced SRE readiness by integrating a full alerting pipeline (PagerDuty, SendGrid) along with Prometheus federation.
* Served as a key technical resource on SRE triage calls, troubleshooting and resolving customer-reported issues in a live, managed service production environment.

Red Hat – Software Engineer Mar 2020 – Jun 2022

* Authored a Kubernetes controller from scratch to orchestrate TopoLVM, providing the foundational storage management for Red Hat's Single Node OpenShift (SNO) product.
* Designed and implemented Thin Logical Volume (LV) support for the TopoLVM CSI driver, introducing a critical new feature that enhanced storage efficiency via on-demand allocation.
* Developed comprehensive automated test suites for advanced GlusterFS components, including Geo-Replication and Dynamic xlator, to ensure data integrity.

TCS – Software Engineer Nov 2016 – Feb 2020

* Developed and automated Continuous Integration Tests (CITs) using Perl and NetApp's internal frameworks for critical hardware, including NVMe, BMC, BIOS, and NVRAM.
* Engineered a robust suite of NVMe validation tests that were adopted by multiple teams across NetApp, establishing a new standard for hardware and software validation.

OPEN SOURCE: Maintainer for the RedHatQE/pylero and kadalu/kadalu GitHub projects.

EDUCATION: Bachelor of Technology, AP IIIT RK Valley, RGUKT – May 2016 (CGPA: 9.26/10).