SREERAM VENKITESH

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I'm a software engineer who likes to tinker with code and greatly appreciates learning how things work from first principles. I love attending conferences and have given several talks.

PROFESSIONAL EXPERIENCE

BigBinary   July 2021 – October 2024 (3 years and 4 months)
- Architected and built neetodeploy.com, a cloud deployment platform as a service, on top of Kubernetes, from scratch with 2 other engineers. Designed key microservices of the system like the addon and database provisioner, the central API which orchestrates deployments within the cluster and the image builder which builds OCI compatible images from code.
- Architected and built the sleep when idle feature by studying alternatives like Knative and Keda and brought down the cloud cost considerably while running over 500 deployments.
- Built the metrics and observability stack for NeetoDeploy with Prometheus, Grafana, Loki and prometheus-adapter to run HorizontalPodAutoscaler with custom metrics from Prometheus.
- Migrated from nginx ingress controller to Traefik Proxy. Researched and experimented with the Kubernetes Gateway API for Traefik and Layer 4 TLS for exposing databases outside K8s.
- Wrote the neetodeploy CLI for connecting to shells inside deployments and to stream logs from outside the cluster. Wrote several blog posts for the BigBinary blog.
- Routinely did cluster upgrades, onboarded and helped new team members with Kubernetes.

OPEN SOURCE

Kubernetes   October 2022 – Present (2 years)
- Added support for allowing zero value to Pod PreStop Lifecycle Hook's Sleep Action.
- Implemented version skew for InPlacePodVerticalScaling feature's beta graduation.
- Ongoing work for adding support for custom stop signals for containers in Kubernetes.
- Ongoing work for adding CEL support to CRD additionalPrinterColumns.
- Received the Contributor Award at Kubernetes Contributor Summit NA 2024, Salt Lake City.
- Served in the release team as a shadow in the enhancements team for v1.29 and v1.30, the **enhancements team lead** for v1.31 and as a release lead shadow for the current v1.32 release.
- Made several contributions to the documentation and serves the position of the **SIG Docs New Contributor Ambassador** by hosting a call for onboarding contributors every month.
- Writes and publishes the Last Week in Kubernetes Development newsletter every week where I study and report all the PRs that are merged into kubernetes every week.
- Smaller bug fixes made in kubernetes/kubernetes.
- Made a total of 325 contributions across 10 repositories in the Kubernetes project

TALKS

- Understanding Kubernetes internals by running a cluster from scratch, KCD Kerala 2024
- The Two Sides of the Kubernetes Enhancement Proposals, KubeCon China 2024
- The Hitchhiker's Guide to Testing Kubernetes, Maintainer Summit, KubeCon India 2024

EDUCATION

Mar Athanasius College of Engineering   August 2017 - June 2021
Bachelor of Technology in Electronics and Communication Engineering (8.09 CGPA)

SKILLS

General: Docker, Kubernetes, Kubernetes internals, Unix and Linux, Vim, general systems administration, working with VMs and cloud networking, PostgreSQL, Redis, Terraform, Ansible.
Programming Languages: Go, Ruby, JavaScript, Bash scripting.
Frameworks: Ruby on Rails, React.js **Cloud Providers**: AWS, Microsoft Azure, DigitalOcean