

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-adaptor 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](#).
- 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