

Shreyas Rao

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PROFESSIONAL SUMMARY

I am a results-driven Senior Software Engineer with expertise in cloud-native technologies, Kubernetes and Golang programming. I design and optimize complex systems while fostering collaboration and technical excellence. As an Australian citizen, I am eligible for an [E-3 visa](#) to work in the USA.

WORK EXPERIENCE

SAP Labs	Bangalore, India
<i>Senior Software Engineer</i>	<i>Apr 2024 - Present</i>

- Directed a team of 6 developers in implementing high availability for Gardener Kubernetes control planes, achieving an uptime increase from 96% to 99.5% while optimizing costs.
- Developed and implemented robust backup and restore protocols, protecting over 400TB of critical cluster data and effectively preventing data loss incidents in recent years.
- Introduced software engineering best practices like pair programming, CI/CD improvements and test-driven software development, improving overall test coverage for owned components from 40% to 85%.
- Monitored and resolved incidents during Developer-on-Duty (DOD) shifts, improving human operator productivity via Kubernetes Custom Resources, cutting down debugging time by at least 20%.

<i>Software Engineer</i>	<i>Aug 2018 - Mar 2024</i>
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- Contributed to Project Gardener, an open source Kubernetes-Clusters-as-a-Service platform, running 10000+ Kubernetes clusters across multiple cloud providers like AWS, GCP, Azure, Openstack, etc.
- Developed and maintained Golang-based Kubernetes operators such as etcd-backup-restore, etcd-druid, and kupid, to protect over 400TB of critical cluster data and effectively preventing data loss incidents.
- Enhanced disaster recovery mechanisms by enhancing monitoring via Prometheus and Grafana, and fixing gaps in cluster restoration, directly reducing restoration times from 12 hours down to 30 minutes.

LEADERSHIP EXPERIENCE

SAP Labs	Bangalore, India
<i>Team Lead, Gardener</i>	<i>Apr 2020 - Present</i>

- Mentored 10 new team members while streamlining the project onboarding process, accelerating their integration into team culture and cutting onboarding time by over 50%.
- Orchestrated the recruitment process by interviewing over 50 external candidates, successfully expanding team size from 2 to 20, and achieving a remarkable 900% growth within 2 years.
- Coordinated presentation efforts at two international KubeCon events and a Kubernetes Meetup event, showcasing Gardener's cloud-native innovations to over 1000 attendees.

CERTIFICATIONS & PUBLICATIONS

- Certified Kubernetes Administrator**, Linux Foundation, December 2020 - Present
- SAP Leadership Academy**, SAP Labs India, August 2024
- Nanodegree in Machine Learning**, Udemy, November 2020
- "Bodhisattva - Rapid Deployment of AI on Containers"**, a technical paper describing a mini-PaaS for AI training, inference and serving, IEEE CCEM 2018

EDUCATION

PES University	Bangalore, India
<i>B.Tech, Computer Science and Technology; Minors in Business Management</i>	<i>Graduation Date: Jun 2018</i>

SKILLS & INTERESTS

Skills: Golang, Python, Kubernetes, Etcd, Cloud Computing, Distributed System Design, AWS, GCP, Azure

Interests: Singing, Music composition, Trekking, Traveling, Volunteer Teaching