

Srinivas Poturi

Software Engineer / Cloud Developer

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Professional Experience

Quest Global (Client: HPE R&D)

Bangalore, India 07/2022 - present

Software Engineer

- Developed a single-pod Go programming microservice application and scaled it to handle multi-pod requests using the fan-out approach in Kubernetes. This involved efficient resource utilization, and robust design considerations. This restructuring significantly **improved the system's performance by 30%**.
- Created **Terraform templates for host creation**, which responsible for provisioning HPE's Cloud Infrastructure.
- Designed and implemented the Deployment Monitoring Bot and Lifecycle Operation Bot. These bots manage synchronization between Terraform state and host state, creating terraform & day-N op-requests, and providing state reporting to users. It **resulted in a 40% improvement in state sync performance**.
- Implemented Lifecycle Operation and Day-N Operations API, **resulting in 100% automation** of updates and upgrades on infrastructure.
- Segregated the HELM charts for different environments existing application, improving organization, maintainability, and ease of deployment.

Telus International R&D

Noida, India 06/2020 - 07/2022

Applications Development Associate

- Designed and developed new application features using Golang's echo framework, ensuring seamless integration with existing systems.
- Authored Swagger documentation and developed unit tests, **achieving 82% endpoint documentation and 78% test coverage**.
- Enhanced existing **RESTful APIs** by adding more functionality and robust error handling capabilities.
- Reduced API response time by 35% through implementing Redis for caching and RabbitMQ for message queuing.

Skills and Interests

- **Languages:** Golang, C++, C, PostgreSQL, Python, Bash Script
- **Technologies:** Docker, Kubernetes, Terraform, Helm, Github Actions, Git, REST API, Harbor
- **Tools:** PSQL, MySQL, Redis, Swagger, RabbitMQ, gRPC, REST API, Linux, Shell script, Jira, Postman
- **Other:** Microservices Architecture, CI/CD, Deployment Automation, Unit test

Education

Post Graduation Diploma, Centre for Advanced Computing
Diploma in Advanced Computing

Noida, India 2019-2020

Graduation, Jawaharlal Nehru Technological University
Computer Science and Engineering

Hyderabad, India 2015-2019

Online Courses & Certifications

- Kubernetes made easy: from scratch (Feb. 2024) - Udemy
- Microsoft Certified: Azure Fundamentals (Mar. 2023) - Microsoft
- Docker crash course for DevOps and developers (Sep. 2021) - Udemy