

Sutrishna Anjoy

Site Reliability Engineer — MTech in Computer Science

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SUMMARY

Site Reliability Engineer with 2 years of experience expertly managing and optimizing **Kubernetes** clusters on **Google Cloud (GKE)**. Dedicated to ensuring high availability, scalability, and performance, with a knack for crafting efficient **Jenkins** pipelines to streamline deployment processes. Skilled in **troubleshooting** and **debugging**, including proficiency in **Linux** and **Networking**.

TECHNICAL SKILLS

Cloud: GCP, AWS, Azure

Orchestration: Kubernetes/K8s, Kustomize, Helm, ArgoCD, Docker

CI/CD: Jenkins, Gitlab, Spinnaker, Terraform, Ansible

Monitoring & Alerting: Prometheus, Grafana, Alertmanager, PagerDuty, ELK Stack

Troubleshooting & Debugging: Linux, Networking

Scripting & Automation: Python, Bash

WORK EXPERIENCE

Site Reliability Engineer

Jul. 2022 – Present

Media.net - it's one of the Top 5 largest ad technology companies.

Mumbai, India

- Monitoring and maintaining multiple GKE clusters across regions.
- Lead the analysis and planning of reducing cost of existing cloud resources used in the projects.
- Setting Logstash pipelines, Kibana alerts, watchers for Developers.
- Writing Jenkins pipelines to automate some of our repeating tasks.
- Day-to-day used technologies - Kubernetes, Kustomize, Helm, Google Cloud (GKE, AR), ArgoCD & Rollouts, ELK, Jenkins, Docker, Git.
- **Key Project** - Cost Optimization through Kubernetes Resource Management.

SRE Intern

Feb 2022 - Jul 2022

Media.net

Mumbai, India

- Understood Linux, Networking, Distributed systems, Virtualization.
- Learned and practiced SRE concepts like Monitoring, CI/CD, containerization, orchestration.
- Reviewed and helped out in maintenance of GKE, ELK clusters.

PROJECTS

Cost Optimization through Kubernetes Resource Management | *GKE, Prometheus*

Dec 2023 – Feb 2024

- Leveraged Grafana with Prometheus for real-time application performance monitoring, dynamically adjusting Kubernetes YAML resource requests and limits based on usage.
- Conducted in-depth analysis of GKE Nodepool resource utilization, eliminating unused nodes and downsizing the node pool to maximize efficiency.
- Seamlessly migrated the main services to the optimized node pool, maintaining top-tier performance & reliability.
- **Achieved** a significant **40% reduction** in infrastructure **costs** through strategic resource management and node pool optimization.

Jenkins Automation for Deployment and Maintenance | *Jenkins, Automation*

Oct 2022 – Jan 2023

- Automated Jenkins pipeline for staging and canary deployments, ensuring rigorous testing before production.
- Implemented CD pipeline in Jenkins for seamless updates and quick rollback to previous versions, minimizing downtime.
- Developed pipelines to auto-clean staging and canary environments based on schedules.
- Scheduled regular cleanup of GCR and AR to optimize storage and maintain efficiency.
- Jenkins pipeline for automated SSL/TLS certificate updates across applications, ensuring ongoing security compliance.
- Created pipeline to monitor and auto-delete surplus on-demand nodes, optimizing resource use and reducing costs.
- We have successfully **reclaimed 70%** of the team's **productive work time** that was previously wasted on these tasks each day.

EDUCATION

Indian Institute of Engineering Science and Technology

Shibpur, India

Master of Technology, Computer Science and Technology

2020 - 2022

- Area of study: **Deep learning.**
- **Wrote thesis on Identification of Lung Cancer Nodules from CT images using 2D Convolutional Neural Networks.**

Jalpaiguri Government Engineering College

Jalpaiguri, India

Bachelor of Technology, Information Technology

2016 - 2020

AWARDS AND ACHIEVEMENTS

M. Tech Topper - IEST Shibpur

Dec 2022

PUBLICATIONS

Lung Cancer detection using 2D CNN - Springer

Jun 2022 - link.springer.com/chapter/10.1007/978-981-19-3089-8_13

In this paper, we use 2D convolutional neural networks to detect malignant nodules from CT scan images. We use modified VGG16 for the identification of lung cancer.