Sutrishna Anjoy

DevOps Engineer — MTech in Computer Science

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EDUCATION

Indian Institute of Engineering Science and Technology, Shibpur   *August 2020 - July 2022*
Master of Technology, Computer Science and Technology   CGPA: 9.63
M. Tech Topper - IIEST Shibpur (*Silver Medalist*)

Jalpaiguri Government Engineering College   *August 2016 - August 2020*
Bachelor of Technology, Information Technology   CGPA: 8.53
(***GATE AIR 4100***)

TECHNICAL STRENGTHS

Cloud	GCP, AWS, Azure
Orchestration	Kubernetes/K8s, Kustomize, Helm, ArgoCD, Docker
CI/CD	Jenkins, Gitlab, Spinnaker, Terraform, Ansible, Codepipeline
Monitoring & Alerting	Prometheus, Grafana, Alertmanager, PagerDuty, ELK Stack, Cloudwatch
Troubleshooting & Debugging	Linux, Networking, RHEL
Scripting & Automation	Python, Shell scripting

WORK EXPERIENCE(*3+ YEARS*)

Habuild   Aug 2024 - Present
DevOps Engineer   *Bangalore*

Achieved a 70% cost reduction by migrating all ECS cluster services to Spot Instances, maintaining zero downtime for production workloads. Achieved 70% cost reduction by migrating ECS cluster services to Spot Instances with zero downtime.
Built new ECS clusters and CI/CD pipeline for Partnerships and development services, improving deployment efficiency for our newly migrated service.
Automated testing pipeline with EventBridge, S3, and CodePipeline, ensuring quality before deployment and hosting test reports in S3 for easy access.
Set up monitoring and alerts across infrastructure using CloudWatch, New Relic, Lambda functions and EventBridge for proactive issue detection.
Migrated critical DNS records from Cloudflare to Route 53, improving performance and security.
Configured AWS DMS for Data Lake, enabling seamless data ingestion for analytics.
Managed and optimized AWS ECS clusters, integrating RDS PostgreSQL, RabbitMQ, and WordPress on EC2 for high availability.
Configured ALB, ELB, and Route 53 for load balancing, ensuring scalability and high availability.
Implemented Pritunl VPN on EC2 for secure access, deployed ELK Stack for efficient log analysis, and secured internal UIs to enhance access control and protection.
Led database service migration from Vercel to AWS ECS.
Utilized AWS Lambda, S3, ASG, ECR, MSK, CodePipeline, VPC, EBS, and IAM to automate and streamline cloud operations.

Media.net - it's one of the Top 5 largest ad technology companies.   Jul 2022 - Aug 2024
Site Reliability Engineer   *Mumbai*

Monitoring and maintaining multiple GKE clusters across regions, leading cost analysis and planning to optimize cloud resource utilization. Proficient in setting up Logstash pipelines, Kibana alerts, and watchers for developers, and writing Jenkins pipelines to automate repetitive tasks. Daily technologies include Kubernetes, Kustomize, Helm, Google Cloud (GKE, AR, IAM), AWS, ArgoCD & Rollouts, ELK stack, Jenkins, Terraform(IaC), Ansible, Docker, GitHub and GitLab. Demonstrated expertise in handling 100 million requests per day with over 95% SLO. Skilled in Python and Shell scripting with extensive experience in Linux server and network troubleshooting, ensuring high availability and optimal performance of services.
Cost Optimization through Kubernetes Resource Management | *GKE, Prometheus*
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 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*
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 usage.

We have successfully reclaimed 70% of the team's productive work time that was previously wasted on these tasks each day.

Media.net   Feb 2022 - Jul 2022
Site Reliability Engineer - Intern   *Mumbai*

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.

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.