



# VISWAJITH VENU


## SENIOR DEVOPS ENGINEER


Experienced DevOps professional with a strong background in configuring and managing production and development infrastructure for monolithic and microservices applications. Proficient in Kubernetes, CI/CD pipeline automation, cloud platforms (AWS, Azure), and observability tools. Skilled in troubleshooting, monitoring, and optimizing production environments, ensuring high availability and security. Adept at implementing backup solutions, managing Kubernetes clusters, and improving operational efficiency through automation with Bash scripting. Expertise in fostering continuous integration practices, reducing deployment times, and collaborating with cross-functional teams to resolve live issues.


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## CERTIFICATIONS

- ❖ Certified Kubernetes Administrator
- ❖ AWS Certified Solutions Architect Associate
- ❖ Microsoft Azure Administrator Associate
- ❖ Microsoft Azure Fundamentals
- ❖ Redhat Certified System Administrator
- ❖ ITIL Foundation

## SKILLS

Kubernetes, Docker, Helm, AKS

Cloud: Azure, AWS, ECS, CloudFormation

IaC: Terraform

CI/CD: Jenkins, GitLab, GitHub, ArgoCD, SonarQube, Nexus, ZAP

GitOps: ArgoCD, FluxCD

MLOps: MLflow, Seldon

Observability: Prometheus, Grafana, Kibana, Azure Monitor

Build: Maven, Gradle, Ant

Search: Elasticsearch

Web Servers: HTTPD, Nginx, Traefik

Databases: PostgreSQL, MySQL, MongoDB

Keycloak, Redis, Kafka, Nats

Monitoring: Grafana, Promtail, Prometheus

Scripting: Bash, Python

OS: Red Hat, Ubuntu, CentOS

## WORK EXPERIENCE

### SENIOR DEVOPS ENGINEER

FINSTREET | ABU DHABI, UAE

May 2024 – Present

- Implemented a full observability and alerting solution using Grafana, Prometheus, and Loki, later migrating to Grafana Cloud for enhanced monitoring and alerting.
- Implemented Kubernetes backup solutions using Veeam Kasten and Velero for data protection and disaster recovery.
- Managed monolithic and microservices-based applications on Kubernetes clusters and standalone servers, ensuring high availability and scalability.
- Configured secure cloud environments for financial exchange applications, incorporating Kubernetes security best practices, Azure Firewall, and Fortinet Firewalls for enhanced security.
- Led the implementation of code security scanning using a combination of open-source tools and Checkmarx to ensure secure coding practices and vulnerability detection.
- Fostered a culture of comprehensive documentation within the team using Confluence, reducing knowledge dependency and improving team collaboration.
- Configured and maintained different database and cache solutions for multiple applications including MongoDB Atlas Azure managed SQL instance and PostgreSQL and Azure managed Redis.

### CLOUD PLATFORM ENGINEER

EXERP | DENMARK (REMOTE)

July 2023 – May 2024

- Configured production AWS EKS Kubernetes clusters for multi-tenant microservices applications, ensuring seamless Kubernetes deployment.
- Built a centralized logging solution in Azure to collect and visualize application logs and metrics using Grafana, Prometheus, and Loki.
- Installed and configured eBPF-based observability tools for fetching latency metrics and improving application performance insights.
- Implemented Kubernetes runtime security monitoring and alerting using Falco, an eBPF-based security tool for Kubernetes clusters.
- Migrated CI/CD pipelines from AWS CodePipeline to GitHub Actions, streamlining the automation process and improving deployment efficiency

SENIOR DEVOPS ENGINEER

SEDAI | TRIVANDRUM

June 2022 – July 2023

- Configured production AWS EKS Kubernetes clusters for multi-tenant microservices applications, enabling efficient Kubernetes deployments.
- Built a centralized logging solution in Azure for collecting and visualizing application logs and metrics using Grafana, Prometheus, and Loki.
- Installed and configured eBPF-based observability tools for fetching latency metrics and enhancing application performance insights.
- Implemented Kubernetes runtime security monitoring and alerting using Falco, an eBPF-based security tool, to ensure cluster security.
- Migrated CI/CD pipelines from AWS CodePipeline to GitHub Actions, and prepared and maintained Terraform templates for infrastructure requirements; also contributed to cloud cost optimization R&D tasks.

DEVOPS ENGINEER

UST | TRIVANDRUM

March 2018 – June 2022

- Configured production and development infrastructure for monolithic and microservices applications, supporting both conventional and Kubernetes deployments, and migrated pre-prod environments from Docker Swarm to self-managed high-availability Kubernetes clusters using Kubeadm.
- Implemented continuous integration and delivery pipelines, reducing deployment time in the development environment from 30-40 minutes to 2 minutes using GitLab CI, Jenkins, and Argo CD.
- Monitored production applications, resolved live issues quickly, and managed Kubernetes clusters, including rolling updates, rollbacks, disaster recovery, and security configurations with Trivy, kube-audit, AppArmor, and Falco.
- Configured and maintained monitoring solutions (ELK stack, PLG stack, Nagios) and backup solutions for AWS EKS and AKS clusters using Velero and AWS S3.
- Implemented and configured Keycloak for centralized authentication and authorization of a microservice application.
- Developed and maintained Helm charts for microservice deployments, configured MLOps pipelines using MLflow and Seldon for the data science team, and managed email solutions (MS Exchange Online, Mailgun, Postfix).
- Conducted load testing and performance tuning with Apache JMeter, performed security testing with OWASP ZAP and Burp Suite, and configured collaboration tools like Jira, Confluence, and MS App Center.

TRAINEE - SERVICE DESK

FLYTXT | TRIVANDRUM

July 2017 - March 2018

- Distribute and assign live issues to respective teams based on priority, ensuring efficient troubleshooting.
- Automated monitoring tasks using **Bash scripting** for improved operational efficiency.
- Monitored production application instances and performed first-level troubleshooting to resolve issues promptly.

EDUCATION

PG: CLOUD COMPUTING

IIT Palakkad, Kerala, India

BTECH: ELECTRONICS AND COMMUNICATION ENGINEERING (ECE)

CGPA: 8.43

LANGUAGES

English

Malayalam

Hindi

DECLARATION

I hereby declare that the above particulars of facts and information stated are true, correct and complete to the best of my belief and knowledge.

VISWAJITH VENU