

# VAISAKH P

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## PROFESSIONAL SUMMARY

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Cloud Engineer with hands-on experience in AWS, OCI, Kubernetes, and CI/CD automation. Cut monthly AWS spend by **22%** through right-sizing, idle-resource cleanup and Savings Plans. Experienced in CI/CD migration (OCI DevOps to Jenkins), monitoring, Terraform IaC, and production incident response across Linux and Windows environments.

## EXPERIENCE

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### Associate Cloud Engineer

Aug 2026 – Present

*Security Quotient, Kochi*

- Own AWS infrastructure end to end (provisioning, monitoring, incident response, and cost optimization) as the **only cloud resource in a small IT team**.
- Reduced monthly AWS spend from **\$900 to \$700 (22%)** by right-sizing over-provisioned **EC2/RDS** instances, idle-resource cleanup and purchasing **Savings Plans** for EC2 and RDS.

### Cloud Support Associate

Dec 2025 – July 2026

*F9 Infotech, Kochi*

- Led the frontend CI/CD migration from **OCI DevOps to Jenkins**, integrating Jenkins with **OKE** behind an **OCI Load Balancer**, replacing a fully manual process with a one-click pipeline and cutting deployment time from **~10 minutes to ~2 minutes**. Collaborated with a senior engineer who handled the backend.
- Performed an **emergency cross-region migration of EC2 and RDS** (UAE to Mumbai) during a regional disruption, ensuring service continuity with minimal downtime.
- Deployed and configured a WordPress application on AWS using a **LAMP stack** with **Amazon RDS**, implementing secure **Security Group configurations** and configuring **DNS records, SSL certificates, and domain routing**.
- Created and maintained **Standard Operating Procedures (SOPs)** aligned with **ITIL** incident, change, and problem management practices, improving troubleshooting consistency and onboarding efficiency.
- Automated AWS infrastructure provisioning using Terraform for EC2, VPC, S3, IAM, and Security Groups, reducing manual configuration effort and ensuring consistency across environments.
- Supported client environments, handling **~10–15 tickets and alerts** per month (CPU/memory, CloudWatch, TSplus, SSL/DNS issues), including pull request handling and migrations for a developer client, with **root cause analysis (RCA)** and rotational on-call support.

## PROJECTS

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### Scalable Kubernetes-Based Application Deployment — EKS, CI/CD, Prometheus, Grafana

- Designed and deployed a containerized Flask application on AWS EKS with high availability using multiple pods and Kubernetes services.
- Built a **GitHub Actions** CI/CD pipeline that builds Docker images, pushes to **ECR**, and deploys to **EKS**, exposed through a **LoadBalancer** service via AWS ELB.
- Implemented **observability using Prometheus and Grafana**, exposing custom metrics and visualizing traffic patterns.
- Debugged issues including CrashLoopBackOff, dependency failures, service discovery, and metrics scraping.
- Performed load testing using Hey (~1100 requests/sec) to validate scalability and performance.

TECHNICAL SKILLS

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|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| Cloud                      | AWS (EKS, EC2, RDS, S3, IAM, VPC, Lambda, CLI),<br>OCI (OKE, OCIR, Load Balancer, OCI DevOps),<br>Azure (Virtual Machines, Blob Storage, VNet) |
| Containers & Orchestration | Docker, Kubernetes (EKS, OKE, Deployments, Services)                                                                                           |
| CI/CD                      | Jenkins, GitHub Actions, OCI DevOps, YAML Pipelines                                                                                            |
| Monitoring & Observability | Prometheus, Grafana, CloudWatch                                                                                                                |
| Infrastructure as Code     | Terraform, CloudFormation (Basics)                                                                                                             |
| Systems & Servers          | Ubuntu, Amazon Linux, Windows, Apache, Nginx                                                                                                   |
| Scripting                  | Bash, Python, PowerShell                                                                                                                       |
| Networking                 | TCP/IP, DNS, HTTP/HTTPS, SSL/TLS, Load Balancing, Cloudflare                                                                                   |
| Databases                  | MySQL, PostgreSQL, MongoDB                                                                                                                     |
| Version Control            | Git, GitHub                                                                                                                                    |

CERTIFICATIONS

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- AWS Certified Cloud Practitioner (CLF-C02)
- Docker Foundations Professional Certificate — Docker Inc
- OCI Foundations Associate — Oracle
- Linux System Administration — freeCodeCamp

EDUCATION

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| Vimal Jyothi Engineering College, Kerala | July 2025 |
| B.Tech in Computer Science               |           |