

Keerthana V

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PROFESSIONAL SUMMARY

Seasoned DevOps Engineer with over 3 years of experience in designing and maintaining robust CI/CD pipelines. Proficient in automating workflows, cloud infrastructure management with IaC, and ensuring seamless application deployment. Expertise in containerization using Docker and orchestration with Kubernetes for microservices architectures. Well-versed in using AWS cloud services. Strong background in implementing Agile Methodologies for product development. Proficient in developing robust GraphQL API's in Golang, alongside expertise in PostgreSQL and a keen interest in exploring emerging technologies such as Generative AI for DevOps.

WORK EXPERIENCE

DevOps Engineer, Accenture Solutions Pvt Ltd.

November 2020 –Present

Project: Engineering Automation Console

- Implemented **GitOps**-based CI/CD pipelines with **Jenkins** and **ArgoCD**, achieving a **30%** reduction in deployment times
- Managed containerized applications using **Docker** and orchestrated deployments with **Kubernetes** for high availability
- Deployed and configured **Ingress-Nginx Controller** on Kubernetes, optimizing incoming traffic management.
- Installed **cert-manager** on **Elastic Kubernetes Service (EKS)**, automating **SSL/TLS** certificate management and securing application deployment with **Let's Encrypt**-signed certificates.
- Automated infrastructure provisioning using **Terraform** and **Ansible** scripts, reducing manual configuration tasks by **25%**
- Handling **AWS IAM** administration, managing user access and developed an automated **Python** scripts using **AWS Lambda** (boto3) to start/stop **EC2** services and monitor **Security Group** configurations for violations such as incoming traffic patterns and remove obsolete rules
- Performed regular cloud cost analysis and implemented resource tagging and tracking mechanisms to monitor and optimize resource utilization
- Streamlined monitoring and logging using **Prometheus**, **Grafana** and **CloudWatch** for real-time insights resulting in improved system reliability

Project: Compliance-as-a-Code

- Managed source code using **GIT**, ensuring code integrity and traceability
- Automated compliance controls with **Jenkins** and utilizing **Nexus** artifactory for report storage, ensuring faster deployments while mitigating security risks
- Developed **GraphQL** API's in **Golang**, focusing on performance, concurrency, scalability, and maintainability
- Designed **Dockerfiles** for backend application by reducing Docker image size, leading to faster deployments and improved resource efficiency
- Conducted code reviews, contributing to continuous improvement of API codebase
- Designed and managed **Helm charts** for efficient deployment.
- Monitored and troubleshooted issues related to CI/CD pipeline, platform stability, conducting health checks, and resolving application downtime

TECHNICAL SKILLS

Operating System	Linux and Windows
Source Code Management	GitLab, Bitbucket
Containerization and Orchestration Tool	Docker and Kubernetes
CI/CD	Jenkins, ArgoCD
Artifactory Storage	Nexus
Code Quality and Analysis	SonarQube
Infrastructure as a code Tool	Terraform and Ansible
Cloud Platforms	AWS - EC2, VPC, IAM, S3, EBS, Lambda, NAT, IGW, Security Groups, Routes, Subnets, CloudWatch, SNS, EKS, ECS, Cloud Formation
Monitoring Tools	Grafana, Prometheus, CloudWatch
Collaboration Tools	Azure TFS, OpenProject
Programming Languages	GraphQL with Golang, Python, HTML
Database	PostgreSQL

FUNCTIONAL SKILLS

- Quick and Continuous learner with positive attitude
- Analytical capability to solve the problems and provide feasible solutions
- Strong mentoring skills to guide and support team members in their professional development
- Effective time management abilities to prioritize tasks and meet project deadlines
- Team player with active participation in project activities, ensuring smooth project delivery

EDUCATION

Course	University/Board	Year of Passing	CGPA
Bachelor of Engineering (Computer Science and Engineering)	JSS Academy of Technical Education, Bangalore	2020	8.26

CERTIFICATIONS

- Amazon Web Services (AWS) Certified Solutions Architect – Associate
- Amazon Web Services (AWS) Certified Cloud Practitioner
- AZ-900: Microsoft Azure Fundamentals