HEMANTH

DEVOPS ENGINEER

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PROFILE

Experienced DevOps Engineer with 5 years of expertise in cloud automation, CI/CD, Kubernetes, and security-first architectures. Proven track record in reducing costs, enhancing security, and optimizing deployment pipelines. Successfully migrated Jenkins to EKS, cutting costs by 50%, and implemented AWS WAF/Shield for DDoS protection, improving system resilience. Passionate about scalable infrastructure, automation, and cloud security.

CERTIFICATIONS

- AWS Certified Solutions Architect – Associate (2024)

- Data Analysis with Python - Jovian

WORK EXPERIENCE

July 2023 - PRESENT
GoGuardian | Bangalore (Remote)
Site Reliability Engineer I

- Migrated Jenkins from EC2 to EKS, **reducing costs by 50%** and improving reliability.
- Implemented AWS CloudFront as a security measure to **mitigate DDoS attacks**, enhancing system resilience and improving uptime.
- Automated infrastructure provisioning using Terraform to manage AWS resources, ensuring compliance with ISO standards.
- Developed and maintained Jenkins CI/CD pipelines, including optimization and automation of workflows, **reducing deployment time by 20%**.
- Developed and maintained numerous Python automation scripts to handle repetitive tasks such as resource provisioning, monitoring, data processing, and log analysis, significantly reducing manual effort and errors.
- Configured, maintained, and optimized servers, improving efficiency and ensuring security compliance.
- Successfully migrated an Amazon EKS cluster to a new EKS cluster, ensuring minimal downtime and optimized performance.

SKILLS

Cloud Platforms
- AWS
- GCP

CI/CD
- Jenkins
- GitLab

Containerization & Orchestration
- Docker
- Kubernetes
- EKS

Infrastructure Automation
- Terraform
- Ansible
- Packer

Programming & Scripting
- Python
- Go

- **Automated kernel and package upgrades** using Python & AWS System Manager, reducing manual effort, security vulnerabilities by 80% and ensuring compliance with ISO standards..
- Built and managed machine **images with Packer**, integrating with cloud services to ensure efficient and repeatable environment creation.
- **Developed 15+ Python automation scripts** to eliminate repetitive manual tasks, automating infrastructure provisioning, monitoring, and log analysis, resulting in a 70% reduction in manual effort and improved system reliability.
- Managed server configurations and deployments using **Ansible**, ensuring consistency and reliability in complex environments.

Nov 2020 - July 2023
42Gears Mobility Systems | Bangalore
DevOps Engineer

- Built and maintained **AWS and GCP** infrastructure, including instances, storage buckets, load balancers, and **Kubernetes clusters**.
- Designed and deployed Docker containers and Kubernetes clusters for a microservices architecture, increasing application scalability and portability.
- Reduced **manual intervention by 60% by implementing a CI/CD workflow**, resulting in faster and more frequent releases.
- Collaborated with development and QA teams, optimizing workflows and **increasing efficiency by 20%**.
- Developed a suite of **Python scripts to automate data processing and analysis** tasks, leading to a 300% increase in speed and significantly reducing manual errors.
- Worked on Karpenter to reduce cloud costs and improve autoscaling efficiency by 25%, enhancing infrastructure scalability.
- Mentored junior team members on DevOps tasks, including CI/CD pipeline implementation, cloud infrastructure management, and deployment process automation.
- Maintained and optimized a Grafana and Prometheus monitoring system, ensuring high availability and performance.
- Actively participated in bug-fixing activities as part of the **development team**, improving product reliability and stability.

Security & Compliance
- AWS WAF
- AWS Shield
- CloudFront

Monitoring & Logging
- Grafana
- Prometheus
- CloudWatch
- DataDog

Database
- MongoDB
- SQL

P R O J E C T S

- Designed and deployed an EKS cluster using Infrastructure as Code (IaC) principles - GitHub Repo
- Developed reusable Terraform modules for provisioning cloud infrastructure across AWS - GitHub Repo
- Built and managed custom Amazon Machine Images (AMIs) using Packer, ensuring compatibility with application requirements and security standards - GitHub Repo

E D U C A T I O N

Visvesvaraya Technological University
- Bachelor of Engineering - Electronics and Communication Engineering