

Harsha Kalyan

Infrastructure Engineer

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Experienced Senior DevOps Engineer. Certified in Kubernetes and AWS solutions architecture. Proficient in Azure and Active Directory, with a background in Computer Science and a strong focus on data-driven solutions. Experienced in Information Security, Information Technology, and Information Systems governance within enterprise settings. Well-versed in OAuth, OpenID, and industry trends, emphasizing ethics and compliance in all facets of IT operations.

Skills

• Container Orchestration:	Kubernetes, Docker, Helm	• Security:	HCP Vault, AWS KMS
• Infrastructure as Code:	Terraform, Pulumi	• Monitoring and Logging:	Prometheus, Grafana
• CI/CD:	Jenkins, GitLab, CircleCI	• Scripting:	Bash, Python
• Cloud Platforms:	AWS, GCP	• Programming Languages:	Python, JavaScript, Go
• Messaging Systems:	Kafka	• Version Control:	Git, GitLab, GitHub
• Agile Methodologies:	Scrum, JIRA	• Configuration Management:	Ansible

Experience

Senior DevOps Engineer Ubiety Technology Inc. | Chicago, Illinois July 2020 - Present

- Led cross-account Kubernetes implementation on GKE and orchestrated CI/CD setup, achieving seamless Kubernetes deployment and CI/CD integration across accounts.
- Strategically transformed AWS account structure, partitioning into three accounts and executing seamless data migration, resulting in efficient data transition and enhanced account performance.
- Empowered robust security by migrating sensitive credentials to HashiCorp Vault, integrating with GitLab CI for fortified security measures and reliable CI/CD pipelines.
- Pioneered cost-effective monitoring with a consolidated Grafana dashboard aggregating metrics, yielding annual cost savings of \$10,000 and reducing incident response time by 40%.
- Contributed to architecture reviews by providing valuable insights and prioritizing scalability, performance, and security considerations, leading to optimized system architectures aligned with business goals.

DevOps Engineer Ubiety Technology Inc. | Chicago, Illinois June 2021 - June 2023

- Directed the development of reusable Terraform modules for AWS services, standardizing infrastructure components for heightened maintainability and version control, resulting in 50% faster infrastructure updates.
- Guided transition from monolith to agile microservices architecture via Kafka consumer model on ECS, reducing operational complexities by 40% and improving response times by 30%.
- Innovated cost-effective CI/CD enhancement through custom GitLab runners with AWS Spot instances, achieving an 80% cost reduction while maintaining high-performance standards.
- Implemented an optimized internal access solution through a dedicated CLI tool and fortified private bastion utilizing AWS SSM, resulting in a decrease of unauthorized access incidents and enhancing operational efficiency by 40%.
- Drove streamlined load testing and QA automation by developing automated scripts with K6, validating system performance across diverse workloads and automating QA procedures, leading to a 50% reduction in testing duration.
- Enhanced team efficiency through comprehensive training in Agile and DevOps principles, resulting in streamlined workflows and faster development cycles.

Cloud Architect BitOGenius | New York City, NY Jan 2021 - May 2021

- Streamlined provisioning by converting code to Terraform, ensuring standardized, error-free deployment.
- Enhanced remote productivity with custom VPN (Pritunl), enabling secure, efficient connectivity.
- Achieved 100% uptime during updates via blue-green process with AWS CodeDeploy.
- Delivered a robust 3-tier architecture, fully meeting client needs and achieving flawless deployment, driving satisfaction.

Education

Master of Science in Computer Systems, Northeastern University Boston, MA	GPA: 3.5/4 Graduated Dec 2020
Bachelor of Science in Electronics and Communications, SRM University Chennai, TamilNadu, India	GPA: 3.6/4 Graduated May 2018

Certifications

- Certified Kubernetes Application Developer (CKAD) Aug 2023 - Aug 2026