Harsha Kalyan

Site Reliability Engineer

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Experienced Senior Engineer, CKAD Kubernetes certified, adept in Unix/Linux, networking, and distributed systems. Proficient in Python and Go. Skilled in MySQL, Redis, Nginx, Kubernetes, Docker, and Flink. Additional strengths in large-scale distributed system design, problem-solving and communication.

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/ virtualization:	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

- Configured fault-tolerant Cassandra clusters, ensuring robustness and reliability, resulting in uninterrupted gaming services.
- Enhanced user experience in gaming scenarios by optimizing Cassandra and Redis, ensuring smoother interactions and reduced latency.
- Introduced Go Lang for cloud apps, significantly improving performance and resource utilization for efficient microservices on EC2.

Education

Master of Science in Computer Systems,   **GPA: 3.5/4**
Northeastern University | Boston, MA   Graduated Dec 2020
Courses: Data Structures and Algorithms

Bachelor of Science in Electronics and Communications,   **GPA: 3.6/4**
SRM University | Chennai, TamilNadu, India   Graduated May 2018

Certifications

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