

Harsha Kalyan

Senior Software Engineer

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3+ years of experience and CKAD certification, my expertise in computer science extends to proficiently utilizing Python and implementing automated testing workflows in enterprise settings. Experienced in AWS, I specialize in architecting and managing cloud infrastructures. Meticulous documentation practices complement my focus on workflow optimization, contributing to the successful implementation of automated testing strategies within the enterprise environment.

Skills

• containerization:	Kubernetes, Docker, Helm	• Security:	HCP Vault, AWS KMS
• infrastructure-as-code:	Terraform, cloudformation	• Monitoring and Logging:	Kibana, Splunk
• CI/CD:	Jenkins, GitLab, CircleCI	• Scripting:	Bash, Python
• cloud infrastructure:	AWS, GCP, Azure	• Programming Languages:	Python, Node, Golang
• Messaging Systems/ Databases:	Kafka, Cassandra, PostgresDb	• 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,

Northeastern University | Boston, MA

Courses: Data Structures and Algorithms

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