

Ushna Akram

Senior DevSecOps Engineer

Email: ushna.akram1@gmail.com | ushnaakram.me



Lancaster University Graduate - B.S. *Software Engineer*

Summary

With over **five years** as a **DevOps Engineer**, I specialize in **AWS, Azure, and GCP**, designing robust cloud architectures and managing **CI/CD pipelines** using tools like **Jenkins** and **GitHub Actions**. Proficient in **Infrastructure as Code** with **Terraform** and **AWS CloudFormation**, I excel in **containerization** using **Docker** and **Kubernetes**, and automation with **Python** and **Bash**. I ensure system reliability through monitoring tools like **Datadog** and **Grafana**, optimize cloud costs with **AWS Cost Explorer**, and uphold security best practices using tools such as **Istio Service Mesh**. A collaborative professional, I leverage platforms like **GitHub** and **JIRA** to drive continuous improvement and efficiency.

Skills

Cloud: AWS, Azure, GCP, Cloudflare

Containers: Docker, Kubernetes, Helm, EKS, ECS

CI/CD: Jenkins, GitHubActions, CircleCI, ArgoCD, CodePipeline

IaC: Terraform, AWS CloudFormation, AWS CDK

Config Mgmt: Ansible, Puppet, Chef

Programming: Python, Golang, TypeScript, Bash

Serverless: AWS Lambda, Serverless Framework, APIGateway

Security: Istio, AWS Well-Architected Framework, Cost Optimization

Collaboration: GitHub, GitLab, BitBucket, Confluence, JIRA, Trello

Monitoring: Datadog, Splunk, Grafana, Prometheus, AWS CloudWatch, NewRelic

Certifications

- AWS Certified DevOps Engineer - Professional
- AWS Certified Solutions Architect - Associate
- AWS Certified Developer - Associate
- Google Cloud - Associate Cloud Engineer
- Certified Kubernetes Application Developer

Experience

Senior DevSecOps Engineer (DevSecOps Engineer) - Freelance (2024 – Present)

- Managed AWS APIs with **EventBridge** rules and **Lambdas** for custom actions on API calls.
- Set up **threat detection** alerts on API calls with notifications via **MSTeams**, **Slack**, and **Google Chat** and integrated with **PagerDuty** and **AzureCloud** for extended analysis.
- Enabled **auto-remediation** for security threats (e.g., re-enabling S3 Public Access Block, removing open SSH rules on public EC2s) and created **SCPs** to block resource creation when specific conditions (like missing tags) are not met
- Implemented **auto-tagging** for resources lacking required tags.
- Generated resource reports for SSO users who were disabled or removed and tracked IPs of SSO user logins, sent threat alerts on failed logins or brute force attempts, and supported **Tailscale** IP tracking.
- Produced daily, weekly, and monthly cost reports for active resources by user
- Calculated IP addresses for VPC CIDRs using **Netbox (IPAM)**
- Created new **GovCloud** accounts and provisioned required resources with **Terraform**
- Ran custom scripts on EC2 launches using **Central SSM Documents**
- Designed & implemented secure, scalable AWS architectures (EKS, ECS, EC2, S3, CloudFront) using **Terraform, AWS CDK & CDK-TF**
- Built & maintained **CI/CD pipelines** with **Jenkins, GitHub Actions, CircleCI, & AWS CodePipeline** improving release cycles
- Performed cost analysis and devised strategies to **optimize cloud spend** without compromising performance
- Collaborated with clients to deliver **tailored solutions, comprehensive documentation**, and training for smooth handovers

Senior DevOps Engineer (DevSecOps Engineer) - Kaleidoscope (2023 – 2024)

- Optimized infrastructure to increase efficiency and reliability.
- Migrated **CI/CD pipelines** from **GitLab** to **GitHub** Actions for streamlined processes.
- Implemented **cost-saving measures** enhancing infrastructure cost-efficiency.
- Developed an **organization-wide API tracking solution** to monitor system performance.
- Enhanced **Golang applications** to improve functionality and performance.
- Led **Terragrunt**-based infrastructure setup for multiple client environments, ensuring scalability.
- Set up **Cloud9** environments, facilitating efficient deployments and improving workflows at Kaleidoscope.

DevOps Engineer (DevSecOps Engineer/Python Developer) - Enquizit (2019 – 2023)

- Collaborated with design teams to develop and enhance software functionality and performance.
- Managed **CI/CD pipelines**, overseeing automated builds and resolving release issues.
- Developed infrastructure using **CloudFormation**, **Terraform**, and **CDK**.
- Created cross-platform tools and integrations to meet user needs.
- Migrated infrastructure to **AWS** from on-premises and other clouds.
- Containerized microservices with **Docker** and deployed using **Kubernetes**, **EKS**, and **ECS**.
- Built serverless applications with **AWS Lambda** (Python) and **GCP Cloud Functions**, integrating with key services.
- Automated deployments using **CloudDeploy** with **YAML** configurations.
- Managed GCP services like **Compute Engine**, **BigQuery**, and **Load Balancing**.