# **Ushna Akram**

# **Senior DevSecOps Engineer**

## Email: [ushna.akram1@gmail.com](mailto:ushna.akram1@gmail.com) | [ushnaakram.me](https://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**.