AKASH MATHANE

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PROFESSIONAL SUMMARY

AWS Certified Solutions Architect (Associate) and Cloud DevOps Engineer with extensive hands-on experience in automating secure CI/CD pipelines and orchestrating Kubernetes clusters. Proficient in **Infrastructure as Code (Terraform)**, Python scripting, and **DevSecOps** practices. Proven ability to reduce deployment latency and optimize cloud costs, seeking to deliver scalable infrastructure solutions.

TECHNICAL SKILLS

- **Cloud Infrastructure:** AWS (EC2, S3, RDS, Lambda, VPC, IAM, EKS, CloudWatch, Bedrock, IAM Access Analyzer).
- **Containerization:** Docker, Kubernetes (K8s), Helm, Amazon EKS.
- **CI/CD & DevOps:** Jenkins, GitHub Actions, ArgoCD, Terraform (IaC), Ansible, Internal Developer Platform (IDP).
- **Security & Monitoring:** SonarQube, Trivy, OWASP Dependency Check, Prometheus, Grafana, AWS Secrets Manager
- **Development:** Python (Boto3), Bash Shell Scripting, Linux (Ubuntu/RHEL).

PROFESSIONAL EXPERIENCE

Cloud / DevOps Practitioner (Professional Upskilling) | Independent Researcher | Pune, India | April 2024 – Present

- **Infrastructure Automation:** Engineered production-grade infrastructure using **Terraform**, reducing environment provisioning time by **90% (60 mins to 5 mins)**.
- **System Reliability:** Simulated SRE scenarios by intentionally disrupting Kubernetes clusters and restoring **99.9% availability** within SLA limits.
- **Continuous Learning:** Completed 400+ hours of lab practice focused on **AWS Solutions Architecture** and **DevSecOps** security integration.

Cloud / AWS Intern | Technogeeks | Pune, Maharashtra, India | January 2024 – April 2024

- **Network Architecture:** Provisioned highly available AWS VPCs with Public/Private Subnets and NAT Gateways to support **50+ concurrent users**.
- **Cost Optimization:** Reduced cloud storage costs by **15%** by implementing S3 Lifecycle Policies to transition cold data to Glacier.
- **Access Management:** Strengthened security posture by enforcing Least Privilege IAM policies for **20+ users**, ensuring zero unauthorized access incidents.

Python Data Science Intern | Obdurate Technologies Pvt. Ltd. | Pune, Maharashtra, India | September 2022 – November 2022

- **Process Automation:** Developed Python scripts to automate repetitive data entry tasks, saving the team **10 hours of manual work per week**.
- **Data Efficiency:** Optimized data cleaning pipelines using Pandas, improving dataset processing speed by **30%**.

PROJECTS

DevSecOps Netflix Clone Deployment | AWS EKS, Jenkins, SonarQube, Trivy, ArgoCD | GitHub: [Link](#)

- **CI/CD Optimization:** Architected a secure pipeline reducing build-to-deploy time by **75%** utilizing Jenkins Shared Libraries and Docker caching.
- **Security Integration:** Enforced automated security gates with **OWASP Dependency Check** and **Trivy**, blocking 100% of high-severity vulnerabilities.

Blue-Green Deployment Pipeline | Jenkins, Docker, Kubernetes Services | [Link](#)

- **Zero-Downtime:** Engineered a Blue-Green deployment strategy on AWS EKS, achieving **0% service interruption** during application updates.
- **Automated Rollback:** Implemented health checks that trigger instant version reversion (**<2 seconds**) if error rates exceed thresholds.

EDUCATION & CERTIFICATIONS

- **AWS Certified Solutions Architect – Associate** | AWS |Validation ID: 62c9d7f67e8f40b68714ef5ea563d02c | 2024 – 2027
- **Bachelor of Science in Computer Science** |University of the People, California, USA | CGPA: 3.56/4.00 | **2019 - 2023**
- **Associate of Science in Computer Science** | University of the People, California, USA | CGPA: 3.56/4.00 |**2019 - 2022**