Muhammad Owais Ahmed

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PROFESSIONAL SUMMARY

Accomplished Senior DevOps & Infrastructure specialist, having expertise in architecting high-scale, production-ready multi-cloud ecosystems across AWS, GCP, and OCI for a global user base exceeding 10M. Demonstrated success in orchestrating seamless, zero-downtime cross-region migrations and leading critical incident response for SEV-1/SEV-2 outages. Expert in accelerating delivery lifecycles and optimizing fiscal efficiency through the implementation of automated DevSecOps controls, GitOps workflows, and deep observability within highly regulated frameworks.

KEY ACHIEVEMENTS

- Engineered a WAF-shielded cold-standby DR platform on Google Kubernetes Engine(<2-min RTO), driving automated deployments and autoscaled load balancing via ArgoCD GitOps and rapid DNS failover. Eliminated container secret leaks across microservices using runtime GCP Secret Manager CSI mounts and pre-boot validation, paired with New Relic distributed tracing.
- Orchestrated backend for a 10M+ user food-tech ecosystem, successfully managing peak traffic of approximately 130,000 concurrent sessions.
- Optimized delivery lifecycles by 82% through commit-aware GitOps pipelines, slashing deployment windows from 17 minutes down to 3 minutes.
- Realized a 95% AWS Security Hub rating by implementing automated DevSecOps controls provisioned entirely via Terraform IaC.
- Managed a seamless, overnight multi-cloud migration across AWS, GCP, and MongoDB Atlas with zero service interruption.
- Enhanced performance by re-platforming Lambda functions to ECS Fargate, driving a 75% reduction in API response latency (from 4s to 1s).
- Commanded SEV-1/SEV-2 incident response at 10M+ user scale, ensuring rapid recovery with absolute data integrity.

EXPERIENCE

Senior DevOps & Infrastructure Engineer — **Techbanq** | Riyadh, Saudi Arabia | April 2025 – Present

Dirasa (AI-Powered Worker Safety & Compliance Platform)

AI/ML Infrastructure & Platform Engineering

- Architected a Saudi Aramco production-ready OCI environment, achieving strict adherence to five Aramco cybersecurity standards (SACS-212/330/341/345/373) and containerized MediaPipe CV pipelines.

DevSecOps & Zero Trust Architecture

- Secured contractor identity data via OCI Vault customer-managed encryption and GitHub Actions CI/CD integrated with OIDC federation to OCI IDCS.
- Mitigated OWASP Top 10 risks by implementing a 3-tier VCN topology protected by OCI WAF and Load Balancers with TLS 1.3 traffic inspection.

Observability & Cloud Security Posture

- Established continuous security posture management using VCN Flow Logs, threshold-based monitoring alerts, and OCI Cloud Guard for real-time detection.

Cheezious (Food-Tech Platform, 10M+ Users, 500+ APIs, 18 DBMS)

Platform Engineering & Cloud Architecture

- Architected an automated cold-standby DR cluster on Google Kubernetes Engine (<3-min RTO) using ArgoCD GitOps, dynamic HPA autoscaling, DNS traffic shifting, and multi-tier load balancing protected by Cloud Armor/WAF.
- Hardened microservice security and observability by replacing build-time secrets with GCP Secret Manager CSI runtime injection, standardizing monorepo builds, and deploying New Relic distributed tracing for full APM parity.
- Executed a zero-downtime, overnight cross-region migration (Middle East to APAC) encompassing AWS, GCP, and MongoDB Atlas environments.
- Slashed API response latency by 75% and tripled concurrent user capacity to 87K through Lambda to ECS Fargate re-platforming and database tuning.
- Hardened database resilience via automated scaling for MongoDB and PostgreSQL using EventBridge/Lambda and production-tuned RDS configuration.

- Eliminated critical single points of failure by migrating legacy EC2 cron jobs to EventBridge, ECS scheduled tasks, and Atlas triggers.
- Hardened database resilience via automated scaling for MongoDB and PostgreSQL using EventBridge/Lambda and production-tuned RDS parameter configuration.

GitOps & CI/CD Pipelines

- Accelerated deployment speed by 82% via commit-aware service builds and replaced static secrets with OIDC-based OAuth 2.0 IAM federation.
- Optimized delivery lifecycles through iterative tuning of build caching and workflows across CodePipeline and GitHub Actions.

DevSecOps & Shift-Left Security

- Neutralized query DoS and session hijacking vulnerabilities through WAF hardening, key rotation policies, and Burp Suite/Nuclei assessments.

Observability & Incident Response (SRE)

- Led SEV-1/SEV-2 incident command for 10M+ users, ensuring rapid service restoration with data integrity through chaos engineering debugging.
- Minimized MTTR by deploying New Relic APM with customized dashboards for failure tracking and proactive anomaly alerting.

FinOps

- Reduced multi-cloud overhead across five vendors by rightsizing resources and consolidating redundant infrastructure components.
- Implemented Cloud CDN with private origin storage buckets for media sharing, dramatically reducing latency, bandwidth costs, and edge attack surface via WAF.

AWS DevOps Engineer

Enerlytics Lab (Renewable, Sustainability Energy Management) Karachi, Pakistan | March 2024 – April 2025

- Reduced infrastructure costs by over 50% by architecting serverless APIs and a Kubernetes cluster provisioned via Terraform and Argo CD.
- Attained a 95% AWS Security Hub rating through automated IaC provisioning of GuardDuty and Cognito-based OIDC authentication.
- Streamlined deployment cycles by engineering automated CI/CD pipelines for Lambda and frontend service delivery.

Associate DevOps Engineer

Zaraye Karachi, Pakistan | August 2023 – March 2024

- Supported high-availability operations for .NET and Node.js applications through proactive AWS infrastructure scaling and load balancing.
- Orchestrated secure MySQL migrations and DNS lifecycle management while enforcing least-privilege IAM security controls.

EDUCATION

Bachelor of Science in Computer Science (BSCS) | 2019 – 2023

FAST NUCES — National University of Computer and Emerging Sciences, Karachi, Pakistan

TECHNICAL SKILLS

Cloud Platforms: Azure, AWS (ECS, Fargate, Lambda, S3, Guard Duty), GCP (Big Query, Maps, Vertex, Wallet), OCI, Cloudflare
Containers & IaC: Docker, Kubernetes, Terraform, CloudFormation
GitOps & CI/CD: Argo CD, GitHub Actions, AWS CodePipeline/CodeBuild
Observability & Security: New Relic, Prometheus, ELK, OCI Vault, WAF, Burp Suite, OIDC, Twingate, Armor, Secret Manager
Databases: PostgreSQL, MongoDB Atlas, MySQL, DynamoDB, Supabase, MS SQL, Redis
DevSecOps: OCI Vault, GuardDuty, AWS Security Hub, WAF, Burp Suite, Nuclei, OIDC/OAuth 2.0, IAM, SSM
FinOps: Consolidated multi-cloud resource rightsizing and overhead reduction