

Hamza Malik

Senior DevOps Engineer | Cloud Architect | Infrastructure Engineer

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Profile

Experienced DevOps Engineer and Cloud Architect with over 10+ years of expertise in designing, implementing, and optimizing cloud-native infrastructures, CI/CD pipelines, and automation frameworks. Proven ability to lead cross-functional teams in delivering scalable, secure, and high-performance cloud solutions across AWS, Azure, and GCP. Skilled in container orchestration (Docker, Kubernetes), Infrastructure as Code (Terraform, Ansible, CloudFormation), and cloud security best practices, ensuring system reliability, compliance, and operational excellence.

Committed to driving efficiency, cost reduction, and process automation through strategic leadership and innovative DevOps methodologies. Adept at modernizing legacy infrastructures, enhancing software delivery lifecycles, and optimizing cloud operations to support enterprise digital transformation. Passionate about cloud innovation, system optimization, and fostering a culture of continuous improvement to enable seamless software delivery and business agility.

Skills

Cloud Platforms: AWS (EC2, S3, Lambda, VPC, IAM, CloudFormation, RDS, ECS, EKS), Azure (Azure DevOps, AKS, Azure Functions, Key Vault, VM Scale Sets, Azure Pipelines), GCP (GKE, Pub/Sub, Cloud Functions, Cloud Run, BigQuery), Multi-Cloud Architectures ((Hybrid and multi-cloud solutions across AWS, Azure, and GCP), Cloud Migration (Seamless transition from on-premises to cloud infrastructure)

CI/CD DevOps Tooling: Jenkins, GitHub Actions, GitLab CI/CD, Azure DevOps, AWS CodePipeline – Automated deployments and workflow orchestration, XLR (XebiaLabs), Octopus Deploy – Enterprise-grade release automation, ArgoCD, Spinnaker – Kubernetes-native continuous delivery

Programming Scripting Languages: Python, Go, Java, JavaScript, C++, Bash, PowerShell, Ruby, Groovy

Data Engineering AI/ML Integration: Apache Spark, Airflow, Kafka – Data pipeline automation, MLflow, TensorFlow, AWS SageMaker – Machine learning model deployment

Infrastructure as Code Automation: Terraform, CloudFormation, Pulumi – Infrastructure provisioning and management, Ansible, Puppet, Chef – Configuration management and automation, Ansible Tower, AWX – Enterprise-scale workflow automation

Monitoring Security: Splunk, Prometheus, Grafana, ELK Stack (Elasticsearch, Logstash, Kibana) – Observability and log analysis, DataDog, CloudWatch, New Relic – Performance monitoring and system health tracking, HashiCorp Vault, AWS KMS, Azure Key Vault – Secrets management and encryption, SIEM, WAF, IDS/IPS – Security compliance and threat detection

Containerization Orchestration: Docker, Kubernetes (K8s), OpenShift – Microservices deployment and scaling, Helm, Kubernetes Operators, Istio – Service mesh and workload automation, K3s, Rancher – Lightweight Kubernetes for edge computing

Professional Experience

Lead DevOps Engineer

08/2022 – Present

Aspired

- Led the design and development of a multi-tenant SaaS platform for automated container updates, streamlining deployment workflows and reducing release cycles by 40 percent, significantly enhancing operational efficiency.
- Managed a cross-functional, globally distributed team to architect and optimize Kubernetes-based infrastructure, ensuring scalable, secure, and efficient microservices deployment across cloud environments.
- Engineered and deployed a serverless AI-powered Chrome extension, integrating OpenAI's large language models (LLMs) to provide real-time, unbiased news updates, improving user engagement and system scalability.
- Developed and executed cloud cost optimization strategies, leveraging AWS and Azure best practices to enhance resource utilization, leading to a 30 percent reduction in operational expenses while maintaining performance and reliability.

Senior Cloud Architect

03/2018 – 07/2022

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- Designed and implemented scalable CI/CD pipelines across AWS and Azure, integrating "fail-fast" testing methodologies to reduce push-to-fail time by 35 percent, enhancing deployment efficiency.

- Developed custom Kubernetes controllers to optimize resource allocation and orchestration, reducing infrastructure provisioning time by 20 percent and improving overall cost efficiency.
- Automated container security compliance workflows, ensuring SOC 2 compliance while saving 1,000+ engineering hours annually through seamless policy enforcement.
- Led cloud infrastructure modernization initiatives, implementing best practices for high availability, security, and cost optimization in multi-cloud environments.
- Spearheaded infrastructure-as-code (IaC) strategies using Terraform and CloudFormation, standardizing deployments and improving system resilience across diverse cloud platforms.

Site Reliability Engineer

01/2015 – 02/2018

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- Designed and implemented reliability strategies, leveraging CI/CD pipelines, Infrastructure as Code (IaC), and Kubernetes to ensure seamless deployments and system stability.
- Developed robust monitoring, logging, and alerting solutions using Prometheus, Grafana, ELK Stack, and Datadog, improving incident detection and response time by 40 percent.
- Automated operational tasks and incident remediation through scripting (Python, Bash, Go) and configuration management tools (Ansible, Terraform, Chef, Puppet), reducing manual toil and increasing efficiency.
- Optimized system performance and cloud cost management, applying SLOs (Service Level Objectives), SLIs (Service Level Indicators), and error budgets to balance feature development with reliability.
- Led root cause analysis (RCA) and post-mortem processes, identifying bottlenecks and driving continuous improvements to site reliability and availability.

PROJECTS

DevSecOps And Compliance Automation

Description:

- Integrated security as code within CI/CD pipelines using Trivy, Snyk, Checkov, and OWASP ZAP for vulnerability detection.
- Implemented policy-as-code using OPA (Open Policy Agent) and AWS Config Rules to enforce compliance (SOC 2, HIPAA, PCI DSS).
- Automated security patching and compliance reporting using AWS Security Hub and Azure Defender.
- Reduced security audit time by 70 percent, improving compliance posture and risk management.

AI-Enhanced Customer Engagement And Predictive Lead Scoring

Description:

- Leveraged AI-driven scoring models in D365 Customer Insights to predict high-value leads and automate personalized marketing workflows, increasing lead conversion rates by 30 percent.
- Integrated D365 CE with Power BI for real-time sales analytics, improving strategic decision-making and customer engagement.

Configuration Management And Automation with Puppet

Description:

- Used Puppet to automate the configuration and management of a large fleet of Linux servers.
- Automated the installation of security patches, user management, and service configurations.
- Set up compliance policies to enforce best practices across the infrastructure.
- Reduced server configuration drift by 90 percent and ensured compliance with security and operational standards.

EDUCATION

Bachelor of Science in Computer Science

National University of Sciences and Technology (NUST)