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## CLOUD DEVOPS ENGINEER | INFRASTRUCTURE AUTOMATION SPECIALIST

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  -  **GitHub:** [github.com/rifaterdemsahin](https://github.com/rifaterdemsahin)
  -  **Portfolio:** <https://rifaterdemsahin.com>
  -  **Schedule a Call:** <https://calendly.com/rifaterdem/schedule>
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## PROFESSIONAL SUMMARY

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Senior Cloud DevOps Engineer specializing in **Infrastructure as Code, CI/CD automation, and cloud-native deployments**. Deep expertise in designing and implementing scalable, secure, and cost-effective cloud infrastructure across AWS, Azure, and GCP. Proven track record building automated deployment pipelines that delivered 300% productivity improvements and 30% cost reductions. Expert in bridging development and operations through modern DevOps practices, containerization, and microservices architecture.


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## CORE DEVOPS COMPETENCIES


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-  **CI/CD Pipeline Engineering** - Advanced design and implementation of automated deployment pipelines - GitOps workflows with automated testing, security scanning, and deployment - Blue-green and canary deployment strategies for zero-downtime releases - Pipeline optimization achieving sub-10-minute deployment cycles
-  **Infrastructure as Code (IaC)** - Expert-level Terraform, Ansible, and CloudFormation implementations - Automated infrastructure provisioning and configuration management -

Infrastructure testing and validation frameworks - Version-controlled infrastructure with automated compliance checks

 **Containerization & Orchestration** - Production Kubernetes clusters with advanced networking and security - Docker containerization strategies and multi-stage build optimization - Helm charts and operator development for application lifecycle management - Service mesh implementation with Istio for microservices communication

 **Multi-Cloud Architecture** - Cloud-agnostic solutions across AWS, Azure, and Google Cloud Platform - Cost optimization strategies reducing cloud spend by 40% - High availability and disaster recovery implementations - Cloud migration strategies and execution

 **DevSecOps & Security** - Security-first infrastructure design with automated vulnerability scanning - Infrastructure security hardening and compliance frameworks - Secrets management and credential rotation automation - Zero-trust network architectures and security policies

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## KEY DEVOPS ACCOMPLISHMENTS

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### 2025 | IBM | London, UK

**Enterprise AI & Hybrid Cloud Transformation - Challenge:** Lead enterprise-scale hybrid cloud transformation and AI integration for global clients - **Solution:** Architected comprehensive IBM Cloud + Red Hat OpenShift platform with watsonx AI integration and DevSecOps practices - **Impact:** - 35% reduction in operational overhead through AI-driven automation with watsonx - 40% improvement in deployment frequency via DevSecOps and Ansible Automation Platform - Zero-downtime migration of mission-critical workloads to hybrid cloud architecture - **Technologies:** IBM Cloud, Red Hat OpenShift, watsonx AI, Ansible Automation Platform, Terraform, Kubernetes, GitHub Actions

### 2024 | Goldman Sachs | Muscat, Oman

**AI-Powered CI/CD Infrastructure - Challenge:** Modernize legacy deployment processes in enterprise fintech environment - **Solution:** Designed and implemented AI-enhanced CI/CD infrastructure with intelligent automation - **Impact:** - 300% increase in deployment frequency with zero-downtime deployments - 30% reduction in infrastructure costs through intelligent resource optimization - 85% reduction in deployment failures via automated testing and validation - **Technologies:** Kubernetes, GitLab CI/CD, Terraform, Azure DevOps, Helm,

ArgoCD - **Infrastructure:** Multi-region Kubernetes clusters, automated scaling, infrastructure monitoring

### **2023 | Ypsomed | Switzerland**

**IoT Device Management Infrastructure - Challenge:** Scale IoT infrastructure to support millions of connected medical devices - **Solution:** Built cloud-native infrastructure with automated device provisioning and monitoring - **Impact:** - 40% improvement in system reliability through automated monitoring and alerting - 35% reduction in operational overhead via infrastructure automation - Real-time device management supporting 1M+ concurrent connections - **Technologies:** Azure IoT Hub, Kubernetes, Terraform, Azure Monitor, Event Grid - **Infrastructure:** Event-driven architecture, auto-scaling IoT services, edge computing

### **2022 | Cushman & Wakefield | London, UK**

**Data Platform Infrastructure Automation - Challenge:** Automate complex data processing infrastructure for real estate analytics - **Solution:** Implemented Infrastructure as Code for scalable data processing and analytics platform - **Impact:** - 50% faster environment provisioning through automated infrastructure deployment - 90% reduction in configuration drift via declarative infrastructure management - Cost optimization achieving 35% reduction in cloud infrastructure spend - **Technologies:** Azure Data Factory, Kubernetes, Terraform, Azure Synapse, ARM Templates - **Infrastructure:** Auto-scaling data pipelines, cost-optimized compute clusters, automated backup

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## **TECHNICAL EXPERTISE**

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### **DevOps Tools & Platforms**

**CI/CD:** GitLab CI/CD, GitHub Actions, Azure DevOps, Jenkins, ArgoCD, Flux

**IaC:** Terraform, Ansible, CloudFormation, ARM Templates, Pulumi, CDK

**Containerization:** Docker, Kubernetes, Helm, OpenShift, Docker Compose, OpenShift CLI (oc), OpenShift Operators

**Monitoring:** Prometheus, Grafana, ELK Stack, Datadog, New Relic, Azure Monitor, Loki, OCP telemetry

**Version Control:** Git, GitLab, GitHub, Azure Repos, Branching strategies

### **Cloud Platforms & Services**

**AWS:** EC2, EKS, Lambda, RDS, S3, CloudFormation, IAM, VPC, Route53

**Azure:** AKS, App Service, Functions, Storage, Key Vault, Monitor, DevOps

**GCP:** GKE, Compute Engine, Cloud Functions, BigQuery, Cloud Storage

**Multi-Cloud:** Terraform modules, cloud-agnostic architectures, cost optimization

## Programming & Scripting

**Languages:** Bash, Python, PowerShell, JavaScript, YAML, JSON, HCL

**Configuration:** Ansible Playbooks, Helm Charts, Kubernetes YAML, Docker files

**Automation:** Infrastructure automation, deployment automation, testing automation

**APIs:** REST APIs, CLI automation, Infrastructure APIs, Monitoring APIs

## Security & Compliance

**Security Tools:** Vault, SOPS, Sealed Secrets, OPA, Falco, Twistlock, OpenShift SCCs (Security Context Constraints)

**Compliance:** SOC2, PCI DSS, GDPR, ISO 27001, CIS Benchmarks

**Network Security:** VPNs, Firewalls, Network Policies, Service Mesh, mTLS, OpenShift Routes

**Identity:** RBAC, IAM, Active Directory, LDAP, OAuth, SAML

**OpenShift:** OLM (Operator Lifecycle Manager), OpenShift Virtualization, platform-level telemetry with Grafana and Loki

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## DEVOPS SPECIALIZATIONS

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### Infrastructure Automation

- Built Infrastructure as Code frameworks supporting 100+ environments
- Automated infrastructure provisioning reducing deployment time from days to minutes
- Implemented self-healing infrastructure with automated recovery mechanisms
- Created infrastructure testing pipelines with compliance validation

### Container Platform Engineering

- Designed production Kubernetes platforms supporting 1000+ microservices
- Implemented multi-tenant container platforms with resource isolation
- Built container security frameworks with automated vulnerability scanning

- Created Kubernetes operators for complex application lifecycle management

## **CI/CD Pipeline Optimization**

- Designed deployment pipelines with sub-10-minute cycle times
- Implemented progressive delivery with automated rollback mechanisms
- Built testing frameworks with 90%+ code coverage requirements
- Created deployment automation reducing manual effort by 95%

## **Monitoring & Observability**

- Implemented comprehensive monitoring stacks with 99.9% uptime SLAs
- Built automated alerting systems with intelligent noise reduction
- Created performance optimization frameworks improving response times by 60%
- Designed cost monitoring and optimization systems saving 40% on cloud spend

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## **PROFESSIONAL EXPERIENCE HIGHLIGHTS**

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### **Senior DevOps Engineer / Infrastructure Lead | 2020 - Present**

*Goldman Sachs, Ypsomed, Cushman & Wakefield*

- Led DevOps transformation initiatives across finance, healthcare, and real estate sectors
- Designed and implemented cloud infrastructure supporting millions of daily transactions
- Established DevOps best practices and automated deployment frameworks
- Mentored engineering teams on modern DevOps practices and cloud technologies
- Delivered infrastructure automation reducing operational overhead by 70%

### **Cloud Infrastructure Engineer | 2016 - 2020**

*Microsoft, Emerson, Various Fortune 500*

- Built cloud-first infrastructure supporting digital transformation initiatives
  - Implemented DevOps practices reducing deployment time from weeks to hours
  - Designed disaster recovery and high availability solutions with 99.99% uptime
  - Led cloud migration projects for mission-critical enterprise applications
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## EDUCATION

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### Bachelor of Science

Southern New Hampshire University, USA  | 2013

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## CERTIFICATIONS & CONTINUOUS LEARNING

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 **AWS Certified DevOps Engineer Professional**

 **Azure DevOps Engineer Expert**

 **Google Cloud Professional Cloud Architect**

 **Certified Kubernetes Administrator (CKA)**

 **Certified Kubernetes Application Developer (CKAD)**

 **HashiCorp Certified: Terraform Associate**

### **Continuous Learning:**

- Active contributor to DevOps and infrastructure automation open-source projects - Regular participant in cloud-native and Kubernetes communities - Following latest developments in cloud technologies and DevOps practices - Experimenting with emerging infrastructure automation tools and practices

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## THOUGHT LEADERSHIP & SPEAKING

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- Technical blog on DevOps and infrastructure automation at [rifaterdemsahin.com](https://rifaterdemsahin.com)
  - Internal tech talks on cloud-native architectures and Kubernetes best practices
  - Mentorship in DevOps communities and engineering teams
  - Infrastructure automation examples and tutorials shared via GitHub
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## SECURITY CLEARANCES

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 **UK SC (Security Check)** - Valid until 2028

 **NATO Clearance** - Valid until 2029

✓ **Background Checks:** Watchdog (2024), Sterling (2019)

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## AVAILABILITY & CONTACT

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**Immediate Availability** for DevOps engineering and infrastructure automation roles



**Schedule a Discussion:** <https://calendly.com/rifaterdem/schedule>



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## SUPPORTING DOCUMENTS

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**Technical Portfolio & Presentations:**

[https://rifaterdemsahin.com/wp-](https://rifaterdemsahin.com/wp-content/uploads/2025/02/rifaterdemsahinprofilepresentation.v2025.2.pdf)

[content/uploads/2025/02/rifaterdemsahinprofilepresentation.v2025.2.pdf](https://rifaterdemsahin.com/wp-content/uploads/2025/02/rifaterdemsahinprofilepresentation.v2025.2.pdf)

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*References and detailed project portfolios available upon request*