









RIFAT ERDEM SAHIN



KUBERNETES ENGINEER | CONTAINER ORCHESTRATION SPECIALIST

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 -  **Portfolio:** <https://rifaterdemsahin.com>
 -  **Schedule a Call:** <https://calendly.com/rifaterdem/schedule>
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PROFESSIONAL SUMMARY


Senior Kubernetes Engineer specializing in **container orchestration, microservices architecture, and cloud-native deployments**. Deep expertise in designing and implementing production-scale Kubernetes clusters supporting millions of daily transactions. Proven track record building container platforms that delivered 300% productivity improvements and 30% cost reductions across enterprise environments. Expert in Kubernetes security, networking, and automated deployment strategies.


CORE KUBERNETES COMPETENCIES

-  **Container Platform Engineering** - Production Kubernetes cluster design and implementation - Multi-cluster management and federation strategies - Container security scanning and runtime protection - Advanced networking with service mesh and ingress controllers
-  **Kubernetes Operations & Automation** - Helm charts and Kubernetes operators for application lifecycle management - GitOps workflows with ArgoCD and Flux for automated

deployments - Advanced scheduling, resource management, and autoscaling - Kubernetes monitoring, logging, and observability

 **Microservices Architecture** - Containerized microservices design and deployment patterns - Service-to-service communication with service mesh (Istio, Linkerd) - API gateway integration and traffic management - Distributed tracing and performance optimization

 **Multi-Cloud Kubernetes** - Managed Kubernetes services (EKS, AKS, GKE) deployment and management - Hybrid cloud and edge computing with K3s and lightweight distributions - Cross-cloud networking and data synchronization - Cost optimization and resource governance across cloud providers

 **Kubernetes Security** - Pod security policies and security contexts implementation - RBAC (Role-Based Access Control) design and management - Network policies and traffic encryption - Secrets management and credential rotation automation

KEY KUBERNETES ACCOMPLISHMENTS

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

Enterprise Kubernetes Platform for Financial Services - Challenge: Build secure, compliant Kubernetes infrastructure for financial trading systems - **Solution:** Architected multi-cluster Kubernetes platform with advanced security and compliance controls - **Impact:** - 300% increase in deployment frequency through automated container orchestration - 30% reduction in infrastructure costs via intelligent resource optimization - 99.9% platform availability with zero-downtime deployments - **Technologies:** AWS EKS, Azure AKS, Helm, ArgoCD, Istio, Prometheus, Grafana - **Implementation:** Multi-region clusters, service mesh, automated scaling, security scanning

2023 | Ypsomed | Switzerland

IoT Data Processing Kubernetes Infrastructure - Challenge: Scale container platform to process millions of IoT device data points in real-time - **Solution:** Implemented event-driven Kubernetes architecture with streaming data processing - **Impact:** - 40% improvement in data processing throughput through optimized container orchestration - 35% reduction in operational overhead via automated container lifecycle management - Real-time analytics supporting 1M+ concurrent device connections - **Technologies:** Azure AKS, Kafka, Kubernetes operators, Helm, Azure Monitor, KEDA - **Implementation:** Event-driven autoscaling, streaming data pipelines, edge computing integration

2022 | Cushman & Wakefield | London, UK

Microservices Platform on Kubernetes - Challenge: Modernize monolithic applications to microservices running on Kubernetes - **Solution:** Designed and implemented Kubernetes-based microservices platform with CI/CD automation - **Impact:** - 50% faster application deployment through containerized microservices - 90% reduction in infrastructure provisioning time via Kubernetes automation - Improved system resilience with distributed architecture patterns - **Technologies:** Azure AKS, Docker, Helm, GitLab CI/CD, Prometheus, Jaeger - **Implementation:** Service mesh, distributed tracing, automated testing, progressive deployment

TECHNICAL KUBERNETES EXPERTISE

Kubernetes Core Technologies

Orchestration: Kubernetes, Docker, Containerd, CRI-O, Red Hat OpenShift (OCP)

Deployment: Helm, Kustomize, ArgoCD, Flux, GitOps workflows, OpenShift CLI (oc)

Networking: Calico, Cilium, Flannel, Istio, Linkerd, Ingress controllers, OpenShift Routes

Storage: Persistent Volumes, CSI drivers, StatefulSets, Storage classes

Security: Pod Security Standards, RBAC, Network Policies, OPA Gatekeeper, OpenShift SCCs (Security Context Constraints)

Cloud Kubernetes Services

AWS: Amazon EKS, EC2, ELB, Route53, IAM, VPC CNI

Azure: Azure AKS, Application Gateway, Azure CNI, Key Vault, Monitor

GCP: Google GKE, Cloud Load Balancing, VPC-native networking, Cloud IAM

Multi-Cloud: Cluster federation, cross-cloud networking, cost optimization

DevOps & Automation

CI/CD: GitLab CI/CD, GitHub Actions, Azure DevOps, Jenkins, Tekton

GitOps: ArgoCD, Flux, Git-based deployment automation, progressive delivery

Infrastructure as Code: Terraform, Pulumi, Ansible, Kubernetes YAML

Package Management: Helm, Kustomize, Operator SDK, Custom Resource Definitions, OpenShift Operators, OLM (Operator Lifecycle Manager)

Monitoring & Observability

Monitoring: Prometheus, Grafana, Kubernetes Dashboard, Lens, OCP telemetry

Logging: ELK Stack, Fluentd, Loki, Azure Monitor, CloudWatch

Tracing: Jaeger, Zipkin, OpenTelemetry, Distributed tracing

Alerting: AlertManager, PagerDuty integration, Slack notifications

OpenShift: OpenShift Virtualization, platform-level telemetry with Grafana and Loki

KUBERNETES SPECIALIZATIONS

Production Cluster Management

- Built and managed Kubernetes clusters supporting 1000+ microservices
- Implemented multi-tenant cluster architectures with resource isolation
- Designed disaster recovery strategies with cross-region cluster replication
- Created automated cluster upgrades with zero-downtime rolling updates

Container Security & Compliance

- Implemented comprehensive container security scanning and runtime protection
- Designed RBAC policies and security contexts for enterprise compliance
- Built network segmentation with Kubernetes network policies
- Created automated security testing and vulnerability remediation pipelines

Microservices Architecture

- Architected microservices platforms with service mesh communication
- Implemented distributed tracing and performance monitoring
- Designed API gateway integration with rate limiting and authentication
- Created service discovery and load balancing strategies

Kubernetes Automation

- Built custom Kubernetes operators for complex application management
- Implemented GitOps workflows with automated deployment pipelines
- Created auto-scaling policies based on custom metrics and business logic
- Designed infrastructure automation reducing manual operations by 95%

PROFESSIONAL EXPERIENCE HIGHLIGHTS

Senior Kubernetes Engineer / Platform Lead | 2020 - Present

Goldman Sachs, Ypsomed, Cushman & Wakefield

- Led Kubernetes platform initiatives across finance, healthcare, and real estate sectors
- Designed and implemented container orchestration supporting millions of daily transactions
- Established Kubernetes best practices and automated deployment frameworks
- Mentored engineering teams on container technologies and cloud-native architecture
- Delivered container platform solutions reducing infrastructure management overhead by 70%

Container Platform Engineer | 2016 - 2020

Microsoft, Emerson, Various Fortune 500

- Built container platforms supporting digital transformation and microservices adoption
 - Implemented Kubernetes clusters for production workloads with high availability requirements
 - Designed container security frameworks and compliance automation
 - Led container migration projects from traditional infrastructure to Kubernetes
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EDUCATION

Bachelor of Science

Southern New Hampshire University, USA  | 2013

CERTIFICATIONS & CONTINUOUS LEARNING

-  Certified Kubernetes Administrator (CKA)
-  Certified Kubernetes Application Developer (CKAD)
-  Certified Kubernetes Security Specialist (CKS)
-  AWS Certified DevOps Engineer Professional
-  Azure DevOps Engineer Expert
-  Istio Certified Associate (ICA)



Continuous Learning:

- Active contributor to Kubernetes and cloud-native open-source projects - Regular participant in CNCF (Cloud Native Computing Foundation) community events - Following latest developments in container orchestration and cloud-native technologies - Experimenting with emerging Kubernetes features and ecosystem tools

THOUGHT LEADERSHIP & SPEAKING

- Technical blog on Kubernetes and container orchestration at rifaterdemsahin.com
 - Internal tech talks on Kubernetes best practices and microservices architecture
 - Mentorship in Kubernetes communities and engineering teams
 - Container orchestration examples and tutorials shared via GitHub
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SECURITY CLEARANCES

-  UK SC (Security Check) - Valid until 2028
 -  NATO Clearance - Valid until 2029
 - ✓ **Background Checks:** Watchdog (2024), Sterling (2019)
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AVAILABILITY & CONTACT

Immediate Availability for Kubernetes engineering and container platform roles



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



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SUPPORTING DOCUMENTS



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)

References and detailed project portfolios available upon request