









RIFAT ERDEM SAHIN


ML RESEARCH ENGINEER | TECHNOLOGY SPECIALIST

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

Senior ML Research Engineer specializing in **enterprise technology solutions, automation, and system optimization**. Expert in designing and implementing scalable solutions supporting mission-critical business operations.

CORE COMPETENCIES

 **ML Research Engineer Expertise** - Enterprise ml research engineer design and implementation - Automation and optimization frameworks - Performance monitoring and tuning - Security and compliance best practices

KEY 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 ML Research Engineer Platform - Challenge: Implement scalable ml research engineer solutions for financial services environment - **Solution:** Architected comprehensive platform with automation and monitoring capabilities - **Impact:** - 300% improvement in operational efficiency through advanced automation - 30% reduction in operational costs via intelligent optimization - 99.9% system availability with automated failover and recovery - **Technologies:** Kubernetes, Terraform, Azure/AWS, Monitoring tools, Automation frameworks

2023 | Ypsomed | Switzerland

Healthcare Technology Platform - Challenge: Scale ml research engineer capabilities for medical device and IoT environments - **Solution:** Implemented robust platform with real-time processing and analytics - **Impact:** - 40% improvement in system performance through optimized architecture - 35% reduction in operational overhead via automation - Real-time insights enabling improved healthcare delivery - **Technologies:** Cloud platforms, Monitoring systems, Automation tools, Analytics platforms

2022 | Cushman & Wakefield | London, UK

Real Estate Technology Platform - Challenge: Modernize ml research engineer infrastructure for property management analytics - **Solution:** Built cloud-native platform with automated processes and real-time analytics - **Impact:** - 50% faster processing through optimized platform architecture - 90% improvement in system reliability via automated monitoring - Enhanced business intelligence enabling strategic decision making - **Technologies:** Azure services, Analytics platforms, Automation frameworks, Monitoring tools

TECHNICAL EXPERTISE

Core Technologies

Platforms: Kubernetes, Docker, AWS, Azure, GCP

Automation: Terraform, Ansible, GitLab CI/CD, GitHub Actions

Monitoring: Prometheus, Grafana, ELK Stack, Azure Monitor

Programming: Python, Bash, PowerShell, YAML, JSON

Specialized Skills

Infrastructure: Infrastructure as Code, Container orchestration, Cloud architecture

Security: Zero-trust architectures, Compliance frameworks, Identity management

Operations: CI/CD pipelines, Monitoring and alerting, Incident response

Integration: API design, Microservices, Event-driven architectures

PROFESSIONAL EXPERIENCE HIGHLIGHTS

Senior ML Research Engineer / AI Solutions Architect | January 2025 - Present

IBM | London, UK

- Architecting hybrid cloud transformation using IBM Cloud and Red Hat OpenShift for Fortune 500 enterprises
- Implementing watsonx AI solutions for intelligent automation, reducing operational overhead by 35%
- Leading DevSecOps transformation with Ansible Automation Platform and Terraform IaC across multi-cloud environments
- Delivering zero-downtime Kubernetes cluster migrations for mission-critical financial and government workloads
- Building enterprise CI/CD pipelines with GitHub Actions and Jenkins serving 500+ developers globally

Senior ML Research Engineer / Technical Lead | 2020 - 2025

Goldman Sachs, Ypsomed, Cushman & Wakefield

- Led ml research engineer initiatives across finance, healthcare, and real estate sectors
- Designed and implemented solutions supporting millions of daily transactions
- Established best practices and automated frameworks
- Mentored engineering teams on modern technologies and practices

- Delivered solutions achieving 300% improvement in operational efficiency

MI Research Engineer | 2016 - 2020

Microsoft, Emerson, Various Fortune 500





- Built enterprise solutions for digital transformation initiatives
- Led cross-functional teams designing scalable applications
- Established frameworks and implementation strategies
- Evangelized modern technologies through technical leadership

EDUCATION

Bachelor of Science

Southern New Hampshire University, USA  | 2013



CERTIFICATIONS & CONTINUOUS LEARNING

-  **Microsoft Certified Solutions Architect Expert**
-  **AWS Certified Solutions Architect Professional**
-  **Azure Solutions Architect Expert**
-  **Certified Kubernetes Administrator (CKA)**

Continuous Learning:

- Active contributor to open-source projects - Regular participant in technical communities - Following latest developments in technology - Experimenting with emerging tools and practices

SECURITY CLEARANCES

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

AVAILABILITY & CONTACT

Immediate Availability for ml research engineer 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