









# RIFAT ERDEM SAHIN

## SENIOR BACKEND ENGINEER | HIGH-PERFORMANCE SYSTEMS & CLOUD ARCHITECTURE SPECIALIST

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-  **Location:** London, United Kingdom
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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 Backend Engineer specializing in **building high-load distributed systems, microservices, and scalable APIs**. Deep expertise in Python, Go, and Java ecosystems with a strong focus on system performance and reliability. Proven track record designing and optimizing backend architectures that handle millions of daily requests for financial services and e-commerce platforms. Expert in database optimization (SQL/NoSQL) and message-driven architectures.

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## CORE COMPETENCIES

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-  **Backend Engineering** - Microservices architecture and distributed systems design - API design and implementation (REST, gRPC, GraphQL) - High-concurrency programming (Go routines, AsyncIO) - Performance profiling and optimization
-  **Data & Infrastructure** - Database design and tuning (PostgreSQL, MongoDB, Redis) - Message queues and event streaming (Kafka, RabbitMQ) - Containerization and orchestration (Docker, Kubernetes) - Cloud-native services (AWS Lambda, DynamoDB, S3)

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## KEY ACCOMPLISHMENTS

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### 2024 | FinTech Scale-up | London

**Payment Processing Engine - Challenge:** Scale the core payment processing engine to handle 10x traffic during peak sales events. - **Solution:** Re-architected the monolithic service into microservices using Go and Kafka. Implemented aggressive caching strategies. - **Impact:** - Increased system throughput by 500% to support 10k transactions/second. - Reduced API latency by 60% (p99 < 100ms). - Achieved 99.999% availability during Black Friday sales. - **Technologies:** Go, Kafka, PostgreSQL, Redis, Kubernetes

### 2023 | E-commerce Platform | Remote

**Inventory Management System - Challenge:** Solve race conditions and data inconsistency issues in a high-traffic inventory system. - **Solution:** Redesigned the data model and implemented distributed locking mechanisms. - **Impact:** - Eliminated inventory over-selling incidents. - Improved database write throughput by 40%. - Enabled real-time inventory updates across all sales channels.

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## PROFESSIONAL EXPERIENCE HIGHLIGHTS

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**Senior Senior Backend 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 Senior Backend Engineer / Technical Lead** | 2020 - 2025 *Goldman Sachs, Ypsomed, Cushman & Wakefield*

- Led senior backend 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

**Senior Backend 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

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## EDUCATION

 **Bachelor of Science**

Southern New Hampshire University, USA  | 2013

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## 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

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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


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**Immediate Availability** for senior backend engineer roles

-  **Schedule a Discussion:** <https://calendly.com/rifaterdem/schedule>
  -  **Email:** [contact@rifaterdemsahin.com](mailto:contact@rifaterdemsahin.com)
  -  **Phone:** +44 7848 024173
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## SUPPORTING DOCUMENTS

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-  **Technical Portfolio & Presentations:**  
<https://rifaterdemsahin.com/wp-content/uploads/2025/02/rifaterdemsahinprofilepresentation.v2025.2.pdf>
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*References and detailed project portfolios available upon request*