









RIFAT ERDEM SAHIN



SENIOR SOFTWARE ENGINEER | POLYGLOT ENGINEER & SYSTEM ARCHITECT

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

Senior Software Engineer specializing in **core software engineering principles, distributed systems, and backend scalability**. Deep expertise in multiple programming paradigms (OOP, Functional) and languages (Java, Python, Go). Proven track record in designing robust, maintainable systems and optimizing performance for high-throughput applications. Expert in clean code practices, design patterns, and system architecture.

CORE COMPETENCIES

-  **Software Engineering Core** - Data Structures & Algorithms complexity analysis - Design Patterns (Gang of Four) & SOLID principles - System Design & Microservices Architecture - High-performance Computing & Concurrency
 -  **Technical Stack** - Languages: Java, Python, Go, C++ - Databases: PostgreSQL, Cassandra, Redis - Infrastructure: Docker, Kubernetes, AWS - Testing: TDD, BDD, Integration Testing strategies
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KEY ACCOMPLISHMENTS

2024 | Tech Unicorn | London

Distributed Rate Limiting Service - Challenge: Prevent system overload during traffic spikes for a globally distributed API. - **Solution:** Designed and implemented a high-performance distributed rate limiter using Redis Lua scripts and a token bucket algorithm. - **Impact:** - Protected 100+ microservices from cascading failures during load spikes. - Handled 50k requests/second with <5ms latency overhead. - Reduced infrastructure costs by 15% through better load shedding. - **Technologies:** Go, Redis, gRPC, Kubernetes

2023 | Financial Services | Remote

Transaction Reconciliation Engine - Challenge: Replace a slow, error-prone legacy batch process for reconciling daily transactions. - **Solution:** Built a real-time event-driven reconciliation engine using Kafka and stream processing. - **Impact:** - Reduced reconciliation time from T+1 (24 hours) to T+0 (Real-time). - Detected anomalies instantly, preventing fraudulent transactions worth £500k+. - Migrated 10TB of historical data with zero downtime.

PROFESSIONAL EXPERIENCE HIGHLIGHTS

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

- Led senior software 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 Software 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)
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AVAILABILITY & CONTACT

Immediate Availability for senior software engineer roles

-  **Schedule a Discussion:** <https://calendly.com/rifaterdem/schedule>
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 -  **Phone:** +44 7848 024173
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SUPPORTING DOCUMENTS

-  **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