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## AI SOLUTIONS ARCHITECT | ENTERPRISE AI STRATEGY LEAD

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



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Senior AI Solutions Architect with proven expertise in **designing and implementing enterprise-scale AI ecosystems**. Specializes in translating complex business requirements into scalable AI architectures, with deep experience in **AI strategy, solution design, and enterprise integration**. Track record of architecting AI solutions that delivered 300% productivity improvements and 30% cost reductions across financial services, healthcare, and real estate sectors. Expert in bridging business strategy with cutting-edge AI technology implementation.


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## CORE AI ARCHITECTURE COMPETENCIES


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-  **Enterprise AI Architecture** - Comprehensive design of end-to-end AI solution architectures - Integration patterns for AI services with existing enterprise systems - Microservices and API-first approaches for AI solution deployment - Scalable architecture patterns supporting millions of AI transactions
-  **AI Strategy & Roadmap Development** - Business-aligned AI transformation strategies and implementation roadmaps - ROI-focused AI solution design and business case

development - Technology stack evaluation and vendor selection for AI initiatives - Risk assessment and mitigation strategies for AI implementations

 **AI Integration & Orchestration** - Expert in integrating AI capabilities across complex enterprise landscapes - API management and service mesh architectures for AI services - Event-driven architectures for real-time AI processing - Hybrid cloud and multi-cloud AI deployment strategies

 **AI Governance & Compliance** - Enterprise AI governance frameworks and policy development - AI ethics, bias detection, and responsible AI implementation - Compliance architectures for regulated industries (finance, healthcare) - Security-first AI design with privacy-by-design principles

 **AI Solution Validation** - Proof-of-concept development and technical feasibility assessment - Performance benchmarking and scalability testing frameworks - Cost optimization models for AI infrastructure and operations - Quality assurance frameworks for AI solution delivery

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## KEY AI ARCHITECTURE ACCOMPLISHMENTS

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### 2024 | Goldman Sachs | Muscat, Oman

**Enterprise AI-Driven Automation Architecture - Challenge:** Design scalable AI architecture for automated CI/CD across enterprise fintech environment - **Solution:** Architected comprehensive AI ecosystem with LLM orchestration, automated workflows, and intelligent monitoring - **Impact:** - 300% increase in deployment frequency through intelligent automation - 30% reduction in operational costs via optimized AI resource allocation - 85% reduction in deployment incidents through predictive error detection - **Architecture:** Microservices-based AI platform, RAG-powered documentation system, multi-model AI orchestration - **Technologies:** Azure OpenAI, Kubernetes, Event Hub, API Management, Service Mesh

### 2023 | Ypsomed | Switzerland

**IoT-AI Convergence Architecture - Challenge:** Design integrated architecture combining IoT data streams with AI analytics for medical device insights - **Solution:** Architected real-time AI analytics platform with predictive maintenance and intelligent anomaly detection - **Impact:** - 40% improvement in system reliability through predictive architecture - 35% reduction in device failures via AI-powered maintenance scheduling - Real-time insights

enabling proactive healthcare delivery optimization - **Architecture:** Event-streaming architecture, time-series AI models, edge computing integration - **Technologies:** Azure IoT Suite, Stream Analytics, ML Studio, Edge computing, Time-series databases

## 2022 | Cushman & Wakefield | London, UK

**Intelligent Real Estate Analytics Architecture - Challenge:** Architect AI-powered data platform for real-time property market intelligence - **Solution:** Designed unified AI analytics architecture with automated data processing and intelligent insights generation - **Impact:** - 50% faster market analysis through automated AI-driven insights - 90% improvement in data quality via intelligent validation architectures - Real-time market intelligence enabling strategic business decisions - **Architecture:** Data lake architecture, AI-powered ETL pipelines, real-time analytics dashboard - **Technologies:** Azure Data Factory, Synapse Analytics, Power BI, ML pipelines, API Management

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## TECHNICAL ARCHITECTURE EXPERTISE

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### AI Solution Architecture Patterns

**Design Patterns:** Microservices AI, Event-driven AI, Serverless AI, Edge AI Computing

**Integration:** API Gateway, Service Mesh, Event Streaming, Message Queues

**Scalability:** Auto-scaling AI workloads, Load balancing, Distributed computing

**Monitoring:** AI observability, Performance monitoring, Cost optimization, SLA management

### Enterprise AI Platforms

**Cloud AI Services:** Azure AI Services, AWS AI/ML Suite, Google AI Platform, IBM Watson

**AI Orchestration:** Kubeflow, MLflow, Azure ML, AWS SageMaker, AI Platform Pipelines

**Data Architecture:** Data Lakes, Data Warehouses, Real-time streaming, Data mesh patterns

**Security:** Zero-trust AI architectures, Encryption, Access control, Audit frameworks

### Solution Design & Modeling

**Architecture Tools:** Enterprise Architect, Visio, Lucidchart, Draw.io, Miro

**Documentation:** Solution blueprints, Technical specifications, Architecture decision records

**Methodology:** TOGAF, Zachman Framework, Agile architecture, Design thinking

**Stakeholder Management:** Executive presentations, Technical reviews, Cross-functional collaboration

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## AI SOLUTION ARCHITECTURE SPECIALIZATIONS

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### Enterprise AI Platform Design

- Designed multi-tenant AI platforms serving 10M+ daily transactions
- Architected hybrid cloud AI solutions with 99.9% uptime requirements
- Implemented cost-optimized AI infrastructure reducing operational costs by 40%
- Created scalable AI service catalogs enabling self-service AI capabilities

### AI-Business Process Integration

- Architected AI-powered workflow automation reducing manual effort by 70%
- Designed intelligent document processing pipelines with 95% accuracy
- Implemented real-time AI decision engines for business process optimization
- Created AI-enhanced customer experience platforms improving satisfaction by 45%

### AI Data Architecture & Analytics

- Designed data mesh architectures supporting AI workloads across business units
- Architected real-time AI analytics platforms processing TB-scale data streams
- Implemented AI-powered data quality frameworks with automated remediation
- Created federated AI model governance across distributed enterprise environments

### AI Security & Compliance Architecture

- Designed zero-trust AI architectures for highly regulated environments
- Implemented AI bias detection and mitigation frameworks
- Architected privacy-preserving AI solutions with differential privacy
- Created AI audit trails and explainability frameworks for compliance

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## PROFESSIONAL EXPERIENCE HIGHLIGHTS

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**Senior AI Solutions Architect / Technical Lead** | 2020 - Present

*Goldman Sachs, Ypsomed, Cushman & Wakefield*

- Led enterprise AI architecture initiatives across finance, healthcare, and real estate sectors
- Designed and implemented AI platforms supporting millions of daily AI interactions
- Established AI governance frameworks ensuring compliance and scalable AI adoption
- Mentored technical teams on AI architecture best practices and solution patterns
- Delivered AI transformation roadmaps driving 300% improvement in operational efficiency

### **Enterprise Solutions Architect** | 2016 - 2020

*Microsoft, Emerson, Various Fortune 500*

- Architected digital transformation solutions incorporating advanced AI capabilities
- Led cross-functional teams designing AI-enhanced enterprise applications
- Established cloud-first AI architecture patterns and implementation guidelines
- Evangelized AI adoption through architecture workshops and technical leadership

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## **EDUCATION**

### **Bachelor of Science**

Southern New Hampshire University, USA  | 2013

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## **CERTIFICATIONS & ARCHITECTURE CREDENTIALS**

-  **Microsoft Certified Solutions Architect Expert**
-  **Azure AI Engineer Associate**
-  **AWS Solutions Architect Professional**
-  **TOGAF 9 Certified Enterprise Architect**
-  **Certified Kubernetes Administrator (CKA)**

### **Architecture Leadership:**

- Enterprise Architecture Review Board member - AI Center of Excellence technical advisor - Cross-industry AI architecture thought leadership - Regular contributor to architecture frameworks and best practices

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## **THOUGHT LEADERSHIP & SPEAKING**

- Technical architecture blog focusing on AI solution patterns at rifaterdemsahin.com
  - Enterprise AI architecture workshops and technical presentations
  - AI governance and strategy advisory for enterprise transformation initiatives
  - Architecture mentorship and technical community leadership
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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 senior AI architecture and strategy 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-](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 architecture portfolios available upon request*