









RIFAT ERDEM SAHIN


SENIOR PYTHON DEVELOPER | PYTHON ECYTOSPROSTEM & BACKEND SPECIALIST


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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 Python Developer specializing in **building high-performance backend systems, data pipelines, and web applications**. Deep expertise in the Python ecosystem (Django, FastAPI, Pandas, Celery) and asynchronous programming. Proven track record in writing clean, pythonic code and optimizing performance for data-heavy applications. Expert in TDD, architectural patterns, and cloud-native Python deployments.

CORE COMPETENCIES

 **Python Ecosystem** - Web Frameworks: FastAPI, Django Rest Framework, Flask - Concurrency: AsyncIO, Multiprocessing, Threading - Task Queues: Celery, RQ, Redis Streams - Data Processing: Pandas, NumPy, SQLAlchemy (ORM/Core)

 **Engineering Practices** - Testing: PyTest, unittest, Factory Boy, Mock - Code Quality: Type Hints (Pydantic, Mypy), Black, Ruff - Packaging: Poetry, Pipenv, Docker multi-stage builds - Architecture: Clean Architecture, Event-Driven Design

KEY ACCOMPLISHMENTS

2024 | Data Analytics SaaS | London

Real-time Data Ingestion Pipeline - Challenge: Ingest and process 1M+ events per minute from IoT devices with low latency. - **Solution:** Built a highly concurrent ingestion service using FastAPI and AsyncIO, coupled with a Kafka consumer group. - **Impact:** - Reduced processing latency from 2s to 200ms. - Scaled horizontally to handle 3x peak traffic load. - Implemented robust error handling and dead-letter queues. - **Technologies:** Python 3.11, FastAPI, Kafka, TimescaleDB

2023 | E-commerce Platform | Remote

Legacy Monolith Migration - Challenge: Modernize a legacy PHP application to a scalable Python microservices architecture. - **Solution:** Designed and implemented core domain services using Django and Domain-Driven Design (DDD). - **Impact:** - Improved developer velocity by 40% through better tooling and type safety. - Reduced bug reports by 30% via comprehensive PyTest coverage. - Enabled easy integration with Data Science teams using shared Python libraries.

PROFESSIONAL EXPERIENCE HIGHLIGHTS

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

- Led senior python developer 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 Python Developer | 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 python developer roles

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

 **Email:** contact@rifaterdemsahin.com

 **Phone:** +44 7848 024173

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