









# RIFAT ERDEM SAHIN

## COMPUTER VISION ENGINEER | IMAGE PROCESSING & VISUAL AI SPECIALIST

---

-  **Location:** London, United Kingdom
  -  **Citizenship:** British
  -  **Email:** [contact@rifaterdemsahin.com](mailto:contact@rifaterdemsahin.com)
  -  **Phone:** +44 7848 024173
  -  **LinkedIn:** [linkedin.com/in/rifaterdemsahin](https://www.linkedin.com/in/rifaterdemsahin)
  -  **GitHub:** [github.com/rifaterdemsahin](https://github.com/rifaterdemsahin)
  -  **Portfolio:** <https://rifaterdemsahin.com>
  -  **Schedule a Call:** <https://calendly.com/rifaterdem/schedule>
- 

## PROFESSIONAL SUMMARY



---

Senior Computer Vision Engineer specializing in **developing algorithms for image classification, object detection, and segmentation**. Deep expertise in OpenCV and deep learning frameworks (PyTorch/TensorFlow). Proven track record in deploying vision systems for medical imaging, manufacturing QA, and security surveillance.

---

## CORE COMPETENCIES

---

-  **Computer Vision** - Object Detection (YOLO, Faster R-CNN) - Semantic & Instance Segmentation (U-Net, Mask R-CNN) - Classical CV (OpenCV, filters, edge detection) - OCR (Optical Character Recognition)
  -  **Deployment & Edge AI** - Model Optimization (TensorRT, OpenVINO) - Edge Deployment (Jetson, Raspberry Pi) - Video Stream Processing (GStreamer, FFmpeg) - Synthetic Data Generation
-

## KEY ACCOMPLISHMENTS

---

### 2024 | Manufacturing Tech | Manchester

**Automated Quality Inspection - Challenge:** Detect microscopic defects on assembly line products at high speed. - **Solution:** Developed a custom CNN architecture deployed on edge devices for real-time inference. - **Impact:** - Improved defect detection rate from 85% to 99.5%. - Reduced manual inspection costs by £200k/year. - Processed 50 items per second with <10ms latency.

### 2023 | Security Systems | Remote

**Facial Recognition Access Control - Challenge:** Secure building access with touchless biometric authentication. - **Solution:** Implemented a liveness detection module to prevent spoofing attacks using depth sensors. - **Impact:** - Reduced false acceptance rate (FAR) to 0.001%. - Enabled entry time of <1 second per person. - Privacy-compliant architecture processing data locally.

---

## PROFESSIONAL EXPERIENCE HIGHLIGHTS

---

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

- Led computer vision 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

**Computer Vision 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 computer vision engineer roles

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

## SUPPORTING DOCUMENTS

---

-  **Technical Portfolio & Presentations:**  
<https://rifaterdemsahin.com/wp-content/uploads/2025/02/rifaterdemsahinprofilepresentation.v2025.2.pdf>
- 

*References and detailed project portfolios available upon request*