

# ONUR COPUR

## Computer Vision / Deep Learning Engineer

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Computer Vision Engineer specialising in custom deep learning models, with expertise in object detection for retail and OCR solutions for postal services. Skilled in Python backend development in production environments, CI/CD automation, and hardware–software integration. Proficient in designing end-to-end data pipelines, deploying scalable AI solutions, and integrating models into edge devices.

## AREAS OF EXPERTISE

**Programming & Data Science:** Python | SQL | LangChain | Pandas | openai sdk | PyTorch | TensorFlow | FastAPI

**MLOps & Deployment:** Docker | Kubernetes | Triton | MLFlow | TeamCity | Airflow | ONNX | Redis | Pinecone

**Cloud & Infrastructure:** Microsoft Azure | AWS | Linux

**Edge AI & Embedded Computer Vision:** Nvidia Jetson | OAK-D Cameras | ESP32

**Project Management & Collaboration:** SCRUM | Jira | CI/CD | Git

## PROFESSIONAL EXPERIENCE

### IMPRIMA

*AI Research Engineer*

AMSTERDAM / THE NETHERLANDS

*Mar 2026 – Present*

- Advancing redaction model performance by integrating state-of-the-art **PII recognition** models and fine-tuning them for mergers and acquisitions (**M&A**) document processing workflows.
- Architecting scalable redaction and translation services leveraging **Azure serverless GPU** infrastructure to support high-throughput document pipelines.
- Developing an **agentic AI assistant** embedded within the due diligence platform to streamline document review and accelerate decision-making workflows.

### PRIME VISION

*Computer Vision / Deep Learning Engineer*

DELFT / THE NETHERLANDS

*May 2022 – Feb 2026*

- Developed and deployed production-grade deep learning models in containerized microservice architectures across multiple innovation projects, including **PostNL**, **Albert Heijn**, and **Austrian Post**.
- Modernized legacy computer vision systems with transformer-based and edge-optimized deep learning models, achieving **up to 65% latency reduction** and measurable performance gains across logistics, warehouse management, aviation, and retail applications.
- Led multiple proof-of-concept (PoC) studies to translate state-of-the-art computer vision research into robust, real-time solutions, including **theft prevention**, **OCR modernization**, and **automated sorting verification**.
- Developed the 2026 technology adoption roadmap for the computer vision team, setting research priorities and guiding strategic initiatives to advance product capabilities.

### BARCO

*Data Science Internship (Master's Thesis - Computer Vision)*

KORTRIJK / BELGIUM

*March 2021 – October 2021*

- Developed a deep learning system to **analyse video** data and evaluate learner engagement during educational sessions.
- Designed and implemented an end-to-end pipeline using facial and gaze cues as behavioural indicators.
- Conducted experimental studies integrating computer vision and learning analytics, providing insights that informed Barco's interactive learning technologies.

### UNIVERA

*Data Scientist*

IZMIR / TURKEY

*May 2018 – August 2019*

- Delivered **demand forecasting** and **route optimisation** solutions powered by machine learning and genetic algorithms, enhancing supply chain efficiency for major retail and FMCG partners.

## EDUCATION

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### SAPIENZA UNIVERSITY

*Master's Degree in Data Science*

*\*Graduated with High Honours (110 cum laude/110)*

ROME, LAZIO / ITALY

*September 2019 – October 2021*

### YASAR UNIVERSITY

*Bachelor's Degree in Industrial Engineering*

*\*GPA: 3.77/4.0*

IZMIR / TURKEY

*September 2015 – June 2019*

## KEY ACHIEVEMENTS

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- **Transformer-Based OCR System for PostNL:** Developed a novel transformer-based OCR achieving state-of-the-art accuracy and 65% lower latency, deployed in production for 1M+ daily scans with <0.5% error rate.
- **Real-Time Theft Prevention System for Albert Heijn:** Built an end-to-end microservice pipeline for real-time shrinkage detection, reducing losses by 25%. Designed edge-optimized object detection models and embedding-based SKU matching across 50k+ items, deployed in 5 stores and 180 self-checkouts.
- **Luggage Tag Recognition and Matching System for Major Airports:** Modernized OCR and object detection pipelines used in sorting systems at IST, AMS, OSL, DUB, and SIN airports, enabling robust recognition of diverse tag designs and high-throughput processing of thousands of luggage items daily under challenging imaging conditions.
- **Proof of Sorting for Austrian Post:** Designed and deployed a computer vision verification system that automatically confirms whether parcels were sorted into the correct bins in real time. Built a low-latency image capture and analysis pipeline on edge devices, integrating object detection, tracking, and action recognition models to detect mis-sorted items and provide instant feedback to operators, improving sorting accuracy and operational efficiency across warehouse sites.

## SELECTED PUBLICATIONS (For complete details, see my [Google Scholar profile](#))

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- “Renewable energy management in smart home environment via forecast embedded scheduling based on Recurrent Trend Predictive Neural Network”, *Applied Energy*, 340 (2023).
- “Engagement detection with multi-task training in e-learning environments”, *ICIAP* (2021)

## ADDITIONAL

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**LANGUAGES:** English (C2), Dutch (B1), Turkish (Native).