



ÖMER FARUK TÜREGÜN

Software Developer

trkuraf@gmail.com

(+90) 538 603 22 71

İzmit / Kocaeli

EDUCATION

Kocaeli University

Computer Engineering

2021 - Present

Necip Fazıl Kısakürek

Anadolu İHL

2017 - 2021

SKILLS

Programming Languages

- Python - Good
- C# - Intermediate
- .NET - Good

FrontEnd Development

- HTML - Intermediate
- CSS - Intermediate
- JavaScript - Intermediate
- TypeScript - Intermediate
- React - Intermediate

BackEnd Development

- Python - Good
- C# - Intermediate
- MongoDB - Good

AI & Data Science

- Machine Learning
- Deep Learning
- Computer Vision
- NLP

DevOps & System Admin.

- Docker
- Linux Systems(Ubuntu)
- Terminal & Shell Scripting

ABOUT ME

I am a senior Computer Engineering student at Kocaeli University with a strong passion for Artificial Intelligence, Machine Learning, Data Science, and Computer Vision. I have experience in Natural Language Processing, Deep Learning, Docker, Unix-based systems (Ubuntu), backend development (Python, C#), frontend development (React, HTML, CSS, JavaScript, TypeScript), and NoSQL databases (MongoDB).

Currently, I am actively involved in university projects and a Talent Program, where I gain hands-on experience and improve my technical skills. I enjoy working on real-world applications, continuously learning, and staying updated with the latest technologies. My goal is to specialize in AI and Data Science, contributing to innovative solutions through research and development.

EXPERIENCE

INTERNSHIPS

07.2024 - 08.2024 | Assan Bilişim - Industrial Applications

R&D Department

I developed efficient Docker applications using Jetson devices and gained experience in active terminal usage on Linux-based systems.

09.2024 - 10.2024 | Assan Bilişim - Data Management Department

I trained a model to detect individuals wearing and not wearing helmets. I managed data analysis, labeling, and training processes using Roboflow. I gained hands-on experience in data preparation and model training for computer vision projects.

WORK EXPERIENCE

10.2025 - Present | KOLSAN - Software Engineer

I am working full-time as a Full-Stack Developer at KOLSAN. I actively participate in web platforms developed for the digitalization, remote management, and reporting of machines on factory premises. In my projects, I develop backend infrastructure using C# and ASP.NET Core MVC, while creating microservices with Node.js. I perform database management and optimization using MSSQL (SSMS), and design user interfaces with JavaScript, HTML, and CSS. I facilitate application deployment through containerization with Docker and contribute to team collaboration through version control on GitHub. I actively contribute to the company's digital transformation process by implementing performance optimizations, bug fixes, and developing new modules in existing systems.

LANGUAGES

- English – B1 Level
- German – A1 Level

SOCIAL MEDIA

 www.linkedin.com/in/oemer-faruk-turegun-6360532b6

 <https://github.com/OmerTuregun>

REFERENCES

Serdar ÇALIŞKAN

Director of Industrial Applications and Data Analytics, KİBAR HOLDİNG

 (+90) 532 604 5806

 serdar.caliskan@me.com

Ali ÖZMERAL

Software Development Executive, Assan Bilişim

 (+90) 507 768 1447

 aliozmeral@gmail.com

İrfan MEVSİM

Software Development Executive, Assan Bilişim

 (+90) 542 740 7311

 irfanmevsim@gmail.com

Feyza SANLIK HOCAOĞLU

Senior Software Development Specialist, YAŞAR BİLGİ

 (+90) 534 384 9503

 feyza.sanlikhocaoglu@yasarbilgi.com.tr

07.2024 - 06.2025 | Assan Bilişim - KTeam Talent Program

Participant

I gained experience in Linux-based computer architecture and Docker usage by working on Jetson devices. I actively contributed to computer vision projects both in the field and in the office, engaging in both technical and hands-on processes. Additionally, I developed skills in full-stack development by working on web interfaces with React and database queries using Python and MongoDB. I also actively utilized terminal commands for virtual servers and remote device access. I had the opportunity to develop various applications and gain insights into computer vision and model training. Throughout these experiences, I continue to learn and improve myself.

PROJECTS

01.2025 - 02.2025

Personal Portfolio Website

A personal portfolio website developed using modern web technologies and Glassmorphism design language. Built with ASP.NET Core MVC backend, containerized on Docker, featuring dynamic content management with Bootstrap 5 and Vanilla JavaScript. Project information is fetched from JSON files for easy updates.

01.2025 - 02.2025

QR Code-Based Factory Issue Reporting System

I developed a C# ASP.NET Core application that enables factory workers to report machine malfunctions by scanning a QR code. The system securely forwards issues to relevant departments through a structured form with CAPTCHA protection, access restrictions, and FastAPI-based backend validation. This project improved my skills in web development, API integration, and security validation.

07.2024 - Present

KIBAREYE – AI-Powered Factory Safety System

I contributed to KIBAREYE, a factory safety system using Jetson-powered cameras and AI models to detect human presence and prevent machine accidents. The system is built with Python and FastAPI for backend processing and React for the web interface. Through this project, I gained experience in AI model training, data labeling, frontend development with React, and real-time data processing using FastAPI and WebSockets. My contributions focused on enhancing AI detection accuracy and improving real-time data streaming, strengthening my expertise in AI deployment and industrial automation for a safer factory environment.

01.2025 - Present

Personalized Real-Time Content Censorship on Mobile Devices Using Machine Learning

This project aims to develop an AI-powered content censorship system for mobile devices, detecting and filtering explicit, violent, and profane content in real-time based on user preferences. YOLO and CNN will be used for image analysis, while BERT will process text content. Optimized with TensorFlow Lite and YOLOv4-Tiny, the system will operate with high accuracy and low latency. The project seeks to enhance digital safety, particularly for children and sensitive users.

CERTIFICATIONS

- **Artificial Intelligence Bootcamp Certificate** – Pupilica, 02.2025
- **FrontEnd Developer Certificate** – BT Academy, 11.2024
- **Pre-Incubation Entrepreneurship Certificate** – Kocaeli University Technopark, 12.2024
- **Introduction to Image Processing Certificate** - T3 Foundation, 08.2025

- **Advanced Python Training Certificate** - BT Academy, 02.2025
- **Linux Workshop Certificate** - Techcareer.net, 08.2025

HOBBIES

- Basketball
- Photography
- Football
- Visiting Historical Places

01.2025 - Present

Fatwa Automation in Islamic Law with a Focus on the Hanafi School

This project aims to develop an AI-powered fatwa automation system focusing on the Hanafi school of Islamic jurisprudence. Using natural language processing (NLP) techniques, the system will interpret user queries with BERT and RoBERTa models and retrieve relevant fatwas via knowledge graphs and semantic search. T5 will summarize long fatwas, while TF-IDF and Word2Vec will establish textual similarity, and GPT-based methods will refine missing information. The project aims to provide a fast, reliable, and AI-driven fatwa system for Islamic law.

11.2024 - 12.2024

Real-Time Sign Language Recognition Model

This project develops a CNN-based model for real-time sign language alphabet recognition. Trained on a custom-built dataset, the model detects and classifies hand gestures using OpenCV and TensorFlow Lite for video-based recognition.

RESEARCH & ACADEMIC PROJECTS

10.2023 - 11.2023

Course Registration System

I developed a Windows Forms Application that matches students with professors based on demand and criteria for project-based courses at a university. I used PostgreSQL as the database and Python as the programming language.

12.2023 - 01.2024

Restaurant Management System

In this project, I designed a multi-threaded interface application for a restaurant, where customer orders are taken and then forwarded to waiters, chefs, and finally the cashier using threads. The core focus was thread organization and synchronization. I used C# as the programming language.

04.2024 - 05.2024

Web Scraping Academic Application

I developed a web-based application that allows searching for academic papers from platforms like Google Scholar using web scraping techniques. The system stores retrieved paper details in a MongoDB database and enables users to query and filter them based on specific attributes. This project helped me gain experience in web scraping, data extraction, and Elasticsearch-based queries.

04.2024 - 05.2024

Patient Tracking and Management System This project is a hospital management system, developed using Python (Django) with an SQLite database. It follows relational database normalization principles and allows patients to register, schedule appointments with doctors, store medical reports, and manage various healthcare-related processes in a centralized web platform.