ÖMER FURKAN ÇELİK

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SUMMARY

Since 2019, I have been honing my skills in Python, initially by creating small Flask API projects to deepen my understanding of back-end development. Beginning my studies at Kocaeli University in 2022, I have actively contributed to academic and extracurricular development teams, where I learned the value of effective collaboration and maintaining a solution-oriented focus. From March to July 2024, I further broadened my horizons by participating in the Erasmus program at Uniwersytet im Adama Mickiewicza w Poznaniu in Poland. My background reflects a commitment to continuous learning, teamwork, and delivering reliable, innovative solutions.

WORK EXPERIENCE

Intern - Jeton Digital, Harpenden, United Kingdom **2024 Nov - 2024 Dec**

- Developed and maintained a web application using the Django framework, focusing on back-end logic and database modeling
- Designed and trained image-processing models using Keras, incorporating techniques such as CNNs for accurate object detection and classification
- Utilized OpenCV for preprocessing tasks, including image augmentation, filtering, and feature extraction
- Collaborated with senior developers to refine workflows, implement best coding practices, and optimize model performance
- Gained hands-on experience with version control and CI/CD pipelines in a fast-paced software development environment

Software Team Head - Arileria UAV, Kocaeli, Türkiye **2025 Jan - On Going**

- Instant processing of images coming from the drone
- Autonomous flight training for drones

Web Developer - IEEE Kocaeli University, Kocaeli, Türkiye **2022 Oct - 2023 May**

- Took part in IEEE Kocaeli Web Development Team.
- Learned about React JS components
- Rebuilt IEEE Kocaeli Web Page

EDUCATION

Bachelor's Degree in Computer Engineering **Sep 2022 - On Going**
Kocaeli University, Türkiye

Erasmus Exchange Program in Computer Engineering **March 2024 – July 2024**
Uniwersytet im. Adama Mickiewicza w Poznaniu, Poland

PERSONAL SKILLS

- Strong solution-oriented approach to process management
- Proficient in writing clean, maintainable code
- Effective both as an independent contributor and as part of a collaborative team
- Highly detail-oriented, able to manage multiple tasks and deadlines efficiently
- Fluent in English, with strong communication and interpersonal skills

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TECHNICAL SKILLS

- Proficient in **Python**, including **asynchronous programming** with **asyncio** and **aiohttp**
- Experienced in developing applications with **Django** and **Flask**
- Skilled in working with relational databases (**MSSQL**) and **NoSQL** databases (**MongoDB**)
- Experience with **OpenCV**, including motion tracking and image preprocessing
- Competent in using **TensorFlow**, focusing on R-CNN, Faster R-CNN, and **YOLO v8** architectures
- Developed **Android** applications using Android Studio with **Java**
- Familiar with **Google Firebase** for data storage and integration of **Google Maps APIs** for location-based services

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CERTIFICATES

EF SET ENGLISH PROFICIENCY

EFSET English Certificate 76/100 (C2 Proficient)

PROJECTS

Detection of shoplifting from live video cameras and warning system

Tübitak 2209-A

Keywords: **Machine Learning, Deep Learning, Image Processing, Alert System, Motion Classification**

This project aims to prevent shoplifting incidents and reduce the economic losses experienced by store owners by increasing store security in the retail sector. Using live video streams from security cameras in convenience stores, motion detection models such as YOLO and Faster RCNN will detect abnormal behaviors such as theft. Rapid recognition of suspicious activity and real-time notification to the security services will allow security officers to focus only on suspicious situations and reduce the need for constant monitoring. This system aims to provide a proactive security solution by detecting theft attempts before they happen.

Honeysteel Ecommerce Django Web Application

Django Application

Keywords: **Threading, Multitasking, Synchronization, Logging**

This project focuses on the design of a system that handles concurrent order management and stock updates. The goal is to use multithreading and synchronization mechanisms to solve the problem of concurrent access to the same resource and to efficiently manage processes such as transaction priority, dynamic queuing, and inventory control. The system provides an infrastructure that includes transaction queuing based on customer types, budget and inventory management, dynamic priority calculation, and transaction logging. The project was developed using Python and SQL-based technologies and provides an adaptable solution for both desktop and web-based application scenarios.