



Ekrem Kirdemir

Full Stack Developer

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Summary

As a proactive and ambitious Computer Engineering graduate from Kocaeli University with a 3.08 GPA, I am eager to apply my skills in a professional setting. My experience with Django, React Native, Flutter, and introductory knowledge of .NET reflect my quick-learning abilities and passion for technology. Recently, I worked on a mineral recognition project using YOLOv8 and ResNet-18, integrating AI and React Native.

Education

Kocaeli University

Bachelor at Computer Engineering

2021 - 2025

TC Ziraat Bankası Balıkesir High School of Science

Work Experience

Torun Metal A.Ş. - Software Developer Intern

2025 - 2025

Built a Python-based anomaly detection pipeline using Z-Score, IQR, and DBSCAN, combining results with majority voting to flag raw material pricing outliers.

Detected 17 significant pricing anomalies in CW614N/CW617N raw material purchases over a 5-year period, resulting in a cumulative financial loss of €78,776. Identified anomalies had an average price ratio of 1.45 compared to market prices, indicating systematic overpayment.

Kocaeli University - STAR Lab - Python Developer and Analyst

2022 - 2024

Organized teams for website construction using .net and analysis of existing sites. Plotting them onto graphs using the Matplotlib library on the backend and integrating them into the current site with API.

Led the development of a data visualization module by implementing Matplotlib for backend analytics, enhancing site performance insights by 30%. Successfully integrated API-driven solutions to streamline data flow between newly developed websites and existing platforms, improving operational efficiency.

Projects

Mineral Recognition App using Deep Learning and Image Processing

2024 - 2025

Developed a mineral classification pipeline utilizing deep learning and computer vision techniques. The project focused on building scalable, accurate, and efficient mineral identification systems through image segmentation and classification.

- Created a custom dataset of 40,000+ mineral images using RPA (UiPath), annotated automatically with polygon masks via U²-Net for high-quality segmentation.
- Trained a YOLOv8 segmentation model for object detection and mask generation, achieving stable validation losses and up to 90% recall.
- Applied cropped masks to train a ResNet-18 classification model, reaching over 95% accuracy with robust generalization.

Library app in React Native [🔗](#)

2024 - 2025

Developed a library app for managing books and cover photos using React Native (Expo), TypeScript, Redux, RESTful APIs, and AsyncStorage, featuring AI-powered cover scanning, motion sensors, and session-based authentication.

- Implemented AI-powered book cover scanning, enhancing search efficiency and user experience.
- Integrated motion sensors and session-based authentication, improving app security and usability.

Restaurant Simulation Django Project [🔗](#)

2023 - 2023

Led the 'Restaurant Simulation' project with Django, utilizing DjangoChannels and WebSockets for real-time communication and multithreading. Excelled in complex backend development, resource synchronization, and enhancing user engagement.

- Implemented real-time communication using Django Channels and WebSockets, improving system responsiveness and user interaction.
- Optimized backend performance with multithreading and resource synchronization, enhancing efficiency and scalability.

Technical Skills

React Native, ASP.NET Core, TypeScript, Html/Css, MongoDB, PostgreSQL, Python, Django, MVC, SQL, AWS, Firebase, Git, Java, Ms Office, REST API

Soft Skills

Collaboration, Problem-solving, Communication, Time management, Result-oriented

Languages

English - Advanced, Turkish - Native