



# ERDEM ÖZKAN

Software Developer

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## EDUCATION

### Computer Science Bachelor Degree

Antalya Bilim University  
2020 - 2025

### High School

Afyonkarahisar Uğur High School  
2016 - 2020

## EXPERTISE

- Java
- C#
- Python
- .NET
- Spring Boot
- Javascript
- Typescript
- NestJS
- Angular
- React
- Linux
- Tensorflow

## LANGUAGES

- TURKISH - NATIVE
- ENGLISH - ADVANCED
- GERMAN - BEGINNER

## ABOUT ME

I am a highly motivated and talented software developer with a passion for creating innovative solutions. I am proficient in multiple programming languages including Python, Java, and C#, and have hands-on experience with frameworks and technologies such as .NET, Java Spring Boot, React, Angular, and NestJS. I have also worked extensively with cloud platforms such as Azure and AWS. My expertise extends to JavaScript and TypeScript, which allows me to develop robust and dynamic web applications.

I also have a background in data analysis, deep learning, and digital image processing, which allows me to address complex problems and provide effective solutions. During my final years of university education at Antalya Bilim University, I worked on various projects that developed my software development and problem-solving skills. With my commitment to continuous learning and professional development, I am eager to contribute my skills and expertise to impactful projects in a dynamic work environment.

## WORK EXPERIENCE

### Prague CoolPass and Library App Celadonsoft Jun 2024 - Sep 2024

- Designed and developed a dynamic web application with features such as an interactive map, grid/list views, and a favorites system. Utilized React for the frontend and integrated Google Maps API to dynamically display locations using latitude and longitude from a database. Implemented advanced UI/UX features like a disappearing/reappearing transparent navbar, a search functionality with dropdowns, and a calculator for pricing and discounts. Leveraged CSS and HTML for custom components and ensured seamless responsiveness and functionality across the application.
- Developed a backend application using NestJS, hosted on a DigitalOcean server, and connected to a database for seamless data management. Designed and implemented core API functionalities with a SOLID architecture to ensure scalability and maintainability. Focused on creating a robust and efficient server-side structure, leveraging NestJS's modular framework for clean and organized code.

### HR and Custom CV Services Sarıtay Bilişim Jan 2024 - Feb 2024

Developed a robust CV management system using Azure Storage integrated with a Java Spring Boot backend. Configured secure storage solutions for uploading and organizing applicant CVs, implementing features like dynamic directory creation and file naming based on metadata. Resolved issues related to version mismatches, file overwrites, and HTTP errors while ensuring efficient backend-to-frontend data flow. Designed and implemented pagination services to handle large datasets dynamically, improving performance and scalability. Assisted in frontend validation and troubleshooting, contributing to a seamless and secure cloud-based storage system.

# EXPERIENCES

## TEKNOFEST – FIGHTING UNMANNED AERIAL VEHICLE

## APEX SOFTWARE TEAM

Participated in the Teknofest Fighting Unmanned Aerial Vehicle competition for two consecutive years as part of the software team. Developed advanced software solutions involving cutting-edge computer vision technologies like YOLO, leveraging libraries such as OpenCV and implementing filtering algorithms like Kalman Filter. Designed and trained model sets for tracking algorithms, integrated APIs for server communication, and ensured seamless hardware-software interaction on Linux systems. Delivered robust and efficient solutions to enhance UAV performance and tracking capabilities.

## SENIOR PROJECT – TeachLink

Developed a comprehensive educational platform using React for the frontend and Spring Boot for the backend. The platform enables instructors to conduct live lessons integrated with video conferencing tools, allowing students to join seamlessly and interact in real-time. Additionally, the system supports purchasing courses, providing both live class participation and access to pre-recorded lesson videos. A key feature of the platform is the integration of advanced exam monitoring using computer vision technologies. During exams, the platform tracks students' gaze behavior to monitor where they focus on the screen, capturing data throughout the exam. At the end of the exam, a heatmap is generated to visualize the areas most viewed by the student, allowing instructors to analyze the data for potential cheating. This feature includes storing exam questions, gaze tracking data, and heatmap results in a robust database for detailed review and analysis.