# Berkay Arda

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## ABOUT ME

I am a Computer Engineer with a strong passion for applying my skills in an innovative and technology-driven company. During my studies, I focused on building a solid foundation in software development and core computer science principles. I have a strong aptitude for designing and developing software solutions, and I am always eager to learn and adapt to new technologies. I thrive in team environments and take pride in contributing to collective success through both technical expertise and effective communication.

## EDUCATION AND TRAINING

2020 – 2025 Izmir, Türkiye
**BACHELOR OF COMPUTER ENGINEERING** İzmir University Of Economis    **Website:** https://www.ieu.edu.tr/en
**Final grade:** 3.20

## WORK EXPERIENCE

01/08/2024 – 28/08/2024 Bursa, Türkiye
**SOFTWARE DEVELOPMENT INTERN** TERACITY YAZILIM TEKNOLOJILERI SAN. VE TIC. A.Ş.
-Developed a 2D action-adventure game using Unity and C#.
-Designed and implemented game mechanics, inventory system, and enemy AI.
-Optimized performance and physics simulations for game objects.
-Created a scoring system and UI components for better user experience.
-Collaborated with the software development team to enhance project workflows.
-Applied object-oriented programming (OOP) principles and design patterns.

## PROJECTS

03/2025 – 05/2025
**VirtualEvent Management System**
Developed a comprehensive event scheduling and notification platform using C# (WinForms) and ASP.NET MVC, integrated with an SQL database. Implemented key features such as user registration, role-based access control (admin/staff/user), real-time event editing, and automated notification alerts. The platform was designed to enhance coordination, streamline communication, and improve user engagement in virtual event environments.
**Link** https://github.com/BerkayArdaa/Virtual-Event-Application

10/2024 – 05/2025
**ShielDir: AI-Powered Real-Time Threat Detection System**
This project focused on developing an intelligent surveillance system that leverages real-time weapon detection and human behavior analysis to improve public safety. My role involved training and evaluating object detection models (YOLOv8–v12) using custom-labeled CCTV datasets and implementing a VideoMAE-based architecture for suspicious behavior recognition. I integrated these models into a modular pipeline and built a mobile-friendly notification system with Firebase to deliver alerts instantly. The system aims to reduce response time during critical threats and support ethical, proactive security solutions.
**Link** https://github.com/BerkayArdaa/ShielDir

**More Projects On Github**: github.com/BerkayArdaa

## NETWORKS AND MEMBERSHIPS

2024 – 2025
**Cyber Security Club** İzmir University of Economics
I served as Head of the Audit Board at the Cyber Security Club of Izmir University of Economics, where I ensured compliance, evaluated operations, and enhanced transparency.

## CERTIFICATIONS

-Advanced Java Program Development | Mustafa Murat Coşkun
-Python Programming and Cyber Security | Atıl Samancıoğlu

## DIGITAL SKILLS

Java | C | C++| C# | Python | JavaScript | PHP | HTML | CSS | MySQL | WireShark | Git | Unity | Machine Learning | PyTorch & YOLO
OpenCV | Data Structures and Algorithms | Cyber Security and Networks | MATLAB | Microsoft Office

## LANGUAGE SKILLS

Mother tongue(s): **TURKISH**
Other language(s): **ENGLISH (PROFESSIONAL WORKING PROCIENCY), SPANISH(ELEMENTARY PROCIENCY)**

## HOBBIES AND INTERESTS

**Developing Computer Games**
**Traveling the world**

## REFERENCES

**Dr. Serhat UZUNBAYIR | Lecturer at IEU**
**Dr. İlker KORKMAZ | Lecturer at IEU**
*(Contact information can be provided upon request)*