



# TOPRAK KAMBUROĞLU

COMPUTER ENGINEERING STUDENT



[Toprak Kamburoğlu](#)



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[Toprak Kamburoğlu](#)



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I have experience developing and deploying full-stack applications across enterprise software, web development, and system integration. Skilled in programming languages including C/C++, C#, and Java, with expertise in frameworks such as ASP.NET MVC, ASP.NET Web API, Spring Boot, and React. Strong focus on database management, scalable architecture, and responsive design, with proven experience collaborating in development teams using modern technologies including SQL Server, MySQL, and contemporary web frameworks.

## EDUCATION

### 2021 - Present

Kadir Has University - İstanbul, Turkey  
B.Sc. in Computer Engineering (English)  
**Expected Graduation:** 2026 | GPA: 3.22

### 2017 - 2021

Borsa İstanbul Zeytinburnu Anatolian  
High School - İstanbul, Turkey  
**Graduated:** 2021

## TECHNICAL SKILLS

**Programming Languages:** C, C++, C#, Java, JavaScript, HTML, CSS, SQL

**Web Frameworks & Technologies:** ASP.NET MVC, ASP.NET Web API, React, Bootstrap, Spring Boot

**Databases:** Microsoft SQL Server, MySQL

**Tools & Software:** Matlab Simulink, Wireshark, Postman, Github, Linux Shell, Ollama

**Soft Skills:** Problem-solving, team collaboration, analytical thinking, adaptability, project management

## CERTIFICATES

- AI and Machine Learning Algorithms and Techniques – **Microsoft (2025)**
- HTML and CSS in depth – **Meta (2025)**
- Deep Learning – **Illinois Institute of Technology (2025)**

## INTERESTS

- AI and Machine Learning
- Deep Learning
- Computer Vision
- Modern Web Technologies
- Full Stack Development
- Cybersecurity
- Data Science
- DevOps & Automation

## INTERNSHIP EXPERIENCE

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### **Crs Soft**

#### **Software Development Intern - Summer 2025**

- Developing AIVentory, an AI-powered inventory management system using ASP.NET Core 9.0, React 18.3.1, and Computer Vision technology
- Built comprehensive RESTful APIs with Entity Framework Core, JWT authentication, and machine learning-based prediction algorithms

### **Horizon Software Bilişim Teknolojileri**

#### **Software Development Intern - Summer 2024**

- Developed Customer Management System using ASP.NET MVC and Entity Framework with comprehensive CRUD operations and database management
- Created responsive web interfaces using HTML, CSS, JavaScript, and Bootstrap while gaining full-stack development experience

## PROJECT EXPERIENCE

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### **AIVentory – AI-Powered Inventory Management System**

**ASP.NET Web API + React (Vite.js) + MySQL + Ollama**

**Project Link:** <https://github.com/ToprakKamburoglu/AIVentory>

**Ongoing Development Project**

- Full-stack web application featuring AI-powered product recognition using Ollama LLaVA model for automatic product identification and categorization
- Implemented multi-layered architecture with role-based access control and comprehensive database schema using Entity Framework Core
- Built Computer Vision features including RGB color analysis, machine learning stock predictions, and responsive UI with real-time analytics

### **Rezal – Restaurant Reservation System (Group Project)**

**Spring Boot + React (Vite.js) + MySQL**

**Project Link:** <https://github.com/ToprakKamburoglu/Restaurant-Reservation-System>

- Developed comprehensive restaurant reservation API service with multi-role authentication supporting Admin, Manager, Restaurant Owner, Customer, and Quota Manager roles
- Built RESTful APIs using Spring Boot, Spring Security for JWT authentication, and MySQL database with real-time table management and session-based booking
- Created responsive React 18 frontend with role-specific dashboards, calendar views, and scalable architecture supporting multi-restaurant chains

## **Aflix – Cinema Center Management System (Group Project)**

**Java + JavaFX + MySQL + Maven**

**Project Link:** <https://github.com/ToprakKamburoglu/Cinema-Center-Management-System>

- Developed comprehensive cinema management application using Java and JavaFX with role-based access control for Admin, Manager, and Cashier users
- Built complete movie theater operations including movie management, real-time seat reservation, point-of-sale functionality, and MySQL database design
- Created intuitive user interface with MVC architecture, DAO pattern, and features supporting revenue analytics and automated invoice generation

## **Customer Management System**

**ASP.NET Core MVC + Entity Framework + SQL Server**

**Project Link:** <https://github.com/ToprakKamburoglu/Customer-Management-System>

- Developed comprehensive web-based customer management platform using ASP.NET Core 8.0 MVC and Entity Framework Core with full CRUD operations
- Implemented secure user authentication system using ASP.NET Core Identity with GDPR-compliant personal data management, password reset functionality, and role-based access control
- Built responsive interface with Bootstrap 5 and jQuery validation, featuring real-time form validation, XSS/CSRF protection, and optimized SQL Server database design

## **Fire Alarm System Design Project (Group Project)**

**Computer Architecture + System Design + Simulation**

**Project Link:** <https://github.com/ToprakKamburoglu/Fire-Alarm-Systems>

### **Industry Partnership with Honeywell**

- Designed comprehensive fire alarm system with multi-zone detection, real-time monitoring, and automated response coordination
- Developed physics-based fire propagation simulation and integrated control system with <30 second response time and emergency backup

## **Digital Logic Circuit Design Project (Group Project)**

**MATLAB Simulink + Digital Logic + Circuit Design**

**Project Link:** <https://github.com/ToprakKamburoglu/Speed-Limiter-System-Design>

### **Industry Partnership with FIGES Engineering**

- Designed digital logic circuit system using MATLAB Simulink featuring 5-bit binary counter, 4-bit comparator, BCD to 7-segment decoder, and visual LED displays
- Implemented sequential and combinational logic with push-button controls, real-time speed limiting, and integrated architecture supporting 0-99 decimal range operations