

Ertuğrul Bayraktar

Software Engineer

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SUMMARY

Full Stack Software Engineer specializing in ASP.NET Core and React for building scalable web applications and APIs. Experienced with Django and FastAPI for Python-based services, and currently expanding skills in AI, machine learning, and AI-integrated application development to complement modern backend systems. Focused on delivering clean, scalable, and maintainable software solutions.

TECHNICAL SKILLS & INTERESTS

Backend & APIs: C#, ASP.NET Core, RESTful APIs, GraphQL, Django, FastAPI.

Frontend: HTML5, CSS3, JavaScript, React.

Databases & Caching: SQL Server, PostgreSQL, Redis.

DevOps & Tools: Git, GitHub, Docker, Linux, Azure DevOps, Postman, Swagger.

Languages: Turkish (Native), English (Professional Working Proficiency), German (Beginning).

EXPERIENCE

SunExpress Airlines

Software Engineering Intern

Antalya, Turkey

August 2025 - October 2025

- Contributed to development of internal, enterprise-scale systems within the Business Airline Solutions team.
- Developed backend services and APIs using ASP.NET Core and SQL Server, supporting core business workflows.
- Worked on database design, system integrations, and asynchronous backend processes.
- Collaborated in Agile/Scrum teams using Azure DevOps, and supported frontend development with React and React Native.

LLUX

Founder

September 2023 - November 2024

- Founded and independently managed an e-commerce venture in the small home appliances category.
- Oversaw product sourcing, supplier relations, pricing, inventory, and multi-channel sales operations.
- Achieved and maintained an average customer satisfaction rating above 8.8 across major e-commerce marketplaces.

BFRC - Bahcesehir University Financial Research Center

Technical Analyst & Editor

September 2021 - June 2023

- Contributed to a weekly financial bulletin covering global markets, macroeconomic topics, and technical analyses.
- Conducted technical analysis across forex, cryptocurrency, and equity markets using price action and smart money concepts.
- Reviewed and edited analytical content to ensure clarity, consistency, and overall publication quality.

EDUCATION

Bahcesehir University

Bachelor's Degree of Software Engineering

Istanbul, Turkey

2021 - 2026

Bahcesehir University

English Preparatory Program

2020 - 2021

PROJECTS

Enhanced Skin Lesion Classification with GAN-Based Augmentation and Deep Learning

Tech Stack: FastAPI, React, PyTorch, OpenCV, Chart.js.

- Developed a full-stack web application for 5-class dermoscopy image classification with real-time inference and interactive result visualization.
- Implemented the FastAPI backend for model inference, request validation, and API design; integrated the trained deep learning model into the service layer.
- Built a responsive React frontend featuring drag-and-drop image upload, before/after preprocessing comparison, and probability distribution charts.
- Collaborated with an AI engineer on model training and augmentation, delivering an end-to-end system achieving 97.23% accuracy on the HAM10000 dataset.

Airline Customer Support Ticketing System with AI Copilot

Tech Stack: ASP.NET Core Web API, SQL Server, EF Core, JWT, Redis, RabbitMQ, Clean Architecture.

- Designed and developed a backend-focused airline ticketing system for post-booking customer support workflows using Clean Architecture principles.
- Implemented JWT-based authentication and role-based authorization, along with a controlled ticket lifecycle and audit-friendly state transitions.
- Integrated an AI Copilot to assist ticket creation and response drafting, improving consistency and agent productivity.
- Built SLA-aware background processing and asynchronous workflows using Redis caching and RabbitMQ for scalability and performance.

Full-Stack E-Commerce Platform

Tech Stack: ASP.NET Core Web API (.NET 8), React, TypeScript, SQL Server, Redis, Serilog.

- Developed a modern full-stack e-commerce application with an ASP.NET Core Web API backend and a React + TypeScript frontend.
- Implemented JWT-based authentication, role-based access control, and secure user registration and login flows.
- Built product, category, cart, and order management features with search, filtering, and sorting capabilities.
- Optimized performance using Redis caching and implemented structured logging with Serilog for observability and debugging.

CERTIFICATIONS & EXAMS

CS50's Web Programming with Python and JavaScript - Harvard University via HarvardX

(June, 1 2025)

Introduction to Programming with Java - BTK Akademi

(August, 12 2025)

Java (Basic) Certificate - HackerRank

(Jul, 11 2025)

Introduction to User Experience Design - Georgia Institute of Technology

(May, 18 2024)

Introduction to User Experience Principles and Processes - University of Michigan

(May, 18 2024)

Foundations of Project Management - Google

(Jan, 05 2024)

Other Aviation Personnel Degree License Certificate - Directorate General of Civil Aviation

(Aug, 25 2025)

KOSGEB Entrepreneurship Training - KOSGEB

Credential ID: KSB01UGE0111331136 (Sep, 2023)

ALES - Master's Entrance Exam

Score: 83,07 - (November, 17 2024)

University Preparation English Test

Score: 91/100 - (Jun, 2021)

HONORS & AWARDS

2024 - 2025 Spring Semester Honour Degree

Bahcesehir University - (June, 2025)

LEADERSHIP & ACTIVITIES

Delegate

FIMUN (Final Model United Nations) Conference

20-24 April, 2018 - Adana, Turkey

- Actively participating in discussions on child labor to address global human rights challenges.
- Developed public speaking and cross-cultural communication abilities through networking with students from diverse backgrounds.

Athlete

Professional Licensed Kickboxing Athlete

2015 - 2022