Ertuğrul Bayraktar

Software Engineer

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Summary

As a dedicated and passionate software engineer with a keen interest in full stack development, experienced in building web applications, REST and GraphQL APIs using ASP.NET Core and React. I am passionate about leveraging my skills and experience to add value to any organization. With the education and skills I have, I am confident in my ability to deliver actionable insights to clients.

Technical Skills & Interests

Backend: C#, ASP.NET Core, Python, Django, REST & GraphQL APIs, SQL Server, MongoDB, Redis, RabbitMQ.
Frontend: HTML, CSS, Bootstrap, JavaScript, TypeScript, React, React Native.
DevOps & Cloud: Azure DevOps, Docker, Kubernetes, CI/CD Pipelines, Git, Linux.
Observability & Quality: SonarQube, Prometheus, Serilog, Postman, Swagger / OpenAPI.
Language: Turkish (Native), English (Proficiency), German (Beginning).

Experience

SunExpress Airlines   Antalya, Turkey
Software Engineering Intern   August 2025-October 2025

- Developed and improved backend services using .NET Core, REST/GraphQL APIs, EF Core, MSSQL, and Redis within a layered architecture. Contributed to scalable API design, data handling, and clean code standards. Supported internal frontend tools built with React and worked with Azure DevOps pipelines, Git, and code review processes.

LLUX
Founder   September 2023-November 2024

- Founded and operated LLUX, an e-commerce business in home appliances and electronics. Oversaw sourcing, inventory, pricing, and customer relations, achieving an 8.8 satisfaction rating. Developed practical skills in operations and entrepreneurship.

BFRC - Bahcesehir University Financial Research Center
Technical Analyst   September 2021-June 2023

- Conducted technical analysis on financial markets, examining price movements, patterns, and indicators to provide insights and forecasts. This role enhances my analytical skills and deepens my understanding of market trends and strategies.

Education

Bahcesehir University   Istanbul, Turkey
Bachelor's Degree of Software Engineering   2021 - 2025

Bahcesehir University
English Preparatory Program   2020 - 2021

PROJECTS

ML-Based Cryptocurrency Price Prediction and Trading Signal Generation Model
Tech Stack: Python, Flask, React.js, NumPy, Pandas, Scikit-learn, LSTM, Random Forest.
- Built an AI-powered cryptocurrency trading signal platform that generates real-time trading predictions using machine learning algorithms. The application combines LSTM neural networks and Random Forest models to analyze BTC/USDT market data and provide trading recommendations. Features a modern React frontend with interactive candlestick charts, technical indicators, and live market data for multiple cryptocurrencies with automatic updates every 3 minutes.

LLUX E-Commerce Platform
Tech Stack: ASP.NET Web API, React, SQL Server, Redis, Serilog, JWT Authentication.
- Developed a full-stack e-commerce platform using ASP.NET Core Web API and React TypeScript. Implemented secure JWT authentication, role-based access, product/category management, shopping cart and order workflows, advanced search & filtering, Redis caching, Serilog logging, and full API documentation with Swagger/OpenAPI.

TaskMaster / Project Management Tool
Tech Stack: Django, Python, JavaScript, Bootstrap, SQLite.
- Built a project management tool with Django and SQLite, implementing a Kanban board with drag-and-drop tasks, role-based access control, team and project management, and AJAX-driven real-time interactions. Designed responsive UI components using Bootstrap and integrated dynamic behavior through JavaScript and jQuery.

CERTIFICATIONS & EXAMS

CS50's Web Programming with Python and JavaScript - Harvard University via HarvardX
(June,1 2025)
Asp.Net Core Web API - BTK Akademi
(Jan,20 2026)
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)
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.