Ertuğrul Bayraktar

Software Engineer

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Summary

As a dedicated and passionate senior software engineering student with a keen interest in full stack development, I am passionate about leveraging my skills and experience to add value to any organization. Currently pursuing my degree at Bahcesehir University. With the education and skills I have, I am confident in my ability to deliver actionable insights to clients.

Technical Skills & Interests

Backend: Python, Flask-Django, Java(0.0.P.), Spring Framework, MongoDB, PostgreSQL.
Frontend: HTML, CSS, Bootstrap, Tailwind CSS, JavaScript, TypeScript, React, React Native.
Cloud and Developer Tools: AWS, CI/CD, Git & GitHub, Docker.
Language: Turkish(native), English(proficiency), German(beginning).
Interests: Kickboxing(Prof. Licensed Athlete), Financial Markets & Trading.

Projects

ML Based Cryptocurrency Price Prediction Model

Machine-Learning-Based Cryptocurrency Price/Movement Prediction and Trading Signal Generation Model

- Tech Stack: Python, Flask, React.js, TensorFlow, Scikit-learn.
- An AI-powered cryptocurrency trading platform that generates real-time trading signals 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 top 20 cryptocurrencies with automatic updates every 3 minutes.
- Key Features: Machine learning trading signals, real-time market data, interactive charts, technical analysis, RESTful API.

Expense Tracker

Python-Based Personal Finance Management System

- Tech Stack: Python, Tkinter, Pandas, Matplotlib, SQLite.
- Repository: https://github.com/ertugrulbayraktr/expense-tracker-python
- A desktop financial management application that helps users track expenses, manage budgets, and analyze spending patterns. The system supports multi-user authentication, hierarchical expense categorization, and comprehensive reporting with data visualizations. Features include budget tracking with overspending alerts, CSV import/export functionality, and anomaly detection for unusual expenses. Built with an intuitive GUI offering multiple themes and interactive charts.
- Key Features: Multi-user support, expense categorization, budget management, data visualization, spending analytics.

Task Master

Project Management System

- Tech Stack: Django, Python, JavaScript, Bootstrap, SQLite.
- Repository: https://github.com/ertugrulbayraktr/cs50w-finalproject-TaskMaster

- A comprehensive project management web application that enables teams to collaborate effectively through task tracking and project coordination. The system features an interactive Kanban board with drag-and-drop functionality, role-based access control, and real-time notifications. Built with Django's ORM for complex database relationships between users, teams, projects, and tasks. Implemented AJAX for seamless user interactions and responsive design for cross-platform compatibility.
- Key Features: Multi-user collaboration, interactive task management, team creation, progress tracking, notification system.

CERTIFICATIONS

CS50's Web Programming with Python and JavaScript - Harvard University via HarvardX
(June,1 2025)

- Mastered full-stack web development through hands-on projects and comprehensive coursework in Python, Django, and JavaScript.
- Applied software engineering best practices including version control (Git), database design (SQL), and responsive web design.
- Delivered 5 production-ready web applications and completed a capstone project involving complex web application architecture, user authentication, and database integration.

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)
ALES - Master's Entrance Exam
Score:83,07 - (November,17 2024)

EXPERIENCE

Founder
LLUX (8.8/10 ratings on e-commerce marketplaces)   *September 2023-October 2024*
- Founded and scaled an e-commerce company specializing in home appliances, building a sustainable and growth-oriented business model from scratch.
- Oversaw inventory management, logistics, and supply chain operations to ensure efficient and on-time product delivery.
- Continuously enhanced product quality and customer satisfaction by analyzing customer feedback and sales data.

EDUCATION

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

Bahcesehir University   Istanbul, Turkey
English Preparatory Program   *2020 - 2021*

LEADERSHIP & ACTIVITIES

Weekly Financial Bulletin Editor & Financial Analyst
Bahcesehir University Financial Research and Implementation Center   *November,2021 – January,2023*
- Led editorial efforts for a comprehensive financial bulletin, covering diverse areas including global markets, Turkish markets, cryptocurrency markets, and commodities.
- Provided insights and forecasts to support editorial content and guide investment decisions.

Delegate
FIMUN (Final Model United Nations) Conference   *20-22 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.

REFERENCES