

MUZAFFER CANAN

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OBJECTIVE

Computer Scientist with a strong learning mindset and solid organizational skills . Seeking a challenging environment to grow professionally while contributing to scalable and high-quality products.

EDUCATION

OZYEGIN UNIVERSITY

Department : Computer Science

• Year: 4th

• **Honors: 100% Scholarship**

(Top 2500 at University Placement Exam among 2 million students)

2020 – 2025

Istanbul

MERAM SCIENCE HIGH SCHOOL

with GPA: 98.7

2016 – 2020

Konya

EXPERIENCE

Full-Stack Software Engineering Intern | Madlen

2026 Feb - 2026 Mar

• **Tools:** React, TypeScript, Vite, Java 21, Spring Boot 3, Python, AWS Lambda, Amazon S3, TanStack Query, Gemini, Vertex AI, Imagen 4, ElevenLabs, OpenCV, FFmpeg

• Developed React/TypeScript based sketch video and podcast modules, managing playback state and multi-language UI with TanStack Query, Context API, and HTML5 Media • Engineered Java 21 and Spring Boot 3 backend services to handle AWS Lambda invocations, StreamingResponseBody video previews, and speed-aware media downloads • Built robust Python transcript-to-video pipeline integrating multiple LLMs and media APIs (Gemini, Vertex AI, fal.ai, Google TTS, ElevenLabs) using parallel processing • Implemented end-to-end webhook handlers, structured quiz generation with JSON schema validation, and optimized S3 storage processes for intermediate media

Financial Data Scientist & Multimodal AI Engineer | Ozyegin University

2025 Feb - 2026 Jan

Tools: Python, TensorFlow/Keras, PyTorch, Hugging Face, Transformers, WandB

• Developed multi-architecture Deep Learning system (ViT, ConvMixer, MLP-Mixer) for ETF price direction prediction using technical indicator visualizations • Implemented ensemble sentiment analysis combining 4 transformer models (FinBERT, DistilBERT, RoBERTa) with weighted averaging for SP500 news analysis Built comprehensive backtesting framework with financial evaluation metrics

<https://github.com/muzaffercanan/EventDrivenBasedForecasting> 🌐

Frontend Developer Intern | Quick and Quality Coding and Software

2024 Jun - 2024 Sep

Tools: TypeScript, React.js, Material-UI, Swagger, Figma

• Developed dynamic web applications for Q&Q Academy utilizing React.js and TypeScript • Built responsive, accessible, and modern user interfaces with Material-UI and Figma • Integrated RESTful APIs via Swagger for efficient data fetching and handling.

PROJECTS

Boom Boom Cube (Match-3 Puzzle Game)

Tools: Unity (C#), ScriptableObject, JSON, Coroutines, Software Design Patterns, Event Arch

• Engineered a data-driven grid system using JSON parsing for dynamic puzzle layouts • Implemented Flood Fill (BFS) for recursive match detection and custom gravity simulations • Architected a scalable codebase via Factory Pattern and an Event-Driven architecture decoupling UI, audio, and gameplay • Optimized mobile performance through object pooling and rendering layer separation (World vs. UI space) • Enhanced visual feedback via particle effects, screen shake, and adaptive camera scaling.

Laurel AI Chat Bot

Tools: TypeScript, React, Express.js, OpenTelemetry, Docker, Jaeger, SQLite

• Developed a full-stack AI chat application utilizing React (TypeScript) and an Express.js backend • Implemented RESTful APIs for session management, chat history persistence, and dynamic model selection • Integrated OpenTelemetry with Jaeger for end-to-end request tracing and observability • Containerized the application using Docker and Docker Compose for reproducible local development.

<https://github.com/muzaffercanan/laurel-ai-chat> 🌐

Nomisma (Digital Banking – Loan Management System)

Tools: C#, .NET 8, ASP.NET 🌐 Core, EF Core, SQL Server, JWT, xUnit, Serilog, React 19, TypeScript, Vite, Tailwind CSS, React Router, Swagger

• Built a full-stack loan management platform with a Clean Architecture .NET 8 Web API (Domain / Application / Infrastructure / API) and a React 19 + TypeScript SPA • Implemented JWT authentication with role-based access control, serving separate Admin and Customer portals • Designed a relational SQL Server schema via EF Core 8 covering loan lifecycle, installment scheduling, and payment processing with a domain-level loan calculator • Developed reusable React components including credit score gauge, payment timeline, and installment table with Tailwind CSS • Integrated mock Credit Score and Payment Gateway services with deterministic test scenarios; covered core logic with xUnit unit and integration tests using in-memory EF Core • Added Serilog structured logging and Swagger API documentation.

YouTube AI Scraping Agent

Tools: Python, Apify, OpenRouter, Tokenization, Embeddings

• Built a web-based, real-time system monitoring dashboard tracking CPU, RAM, disk, processes, and logs • Implemented password-protected access via basic authentication • Containerized the application using Dockerfile and Docker Compose for streamlined deployment.

LANGUAGES

English — C1 | Written and Oral fluency • Turkish — Native