

YUNUS EMRE ACAR

Sakarya, Adapazarı, TR

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Education

Manisa Celal Bayar University

B.S. in Software Engineering (GPA: 3.58 / 4.00)

Sept 2023 – Present

Manisa, TR

Figen Sakalioğlu Anatolian High School

Sept 2018 – June 2022

Sakarya, TR

Experience

ISKUR Youth Program

Student Support Assistant

Nov 2025 – Present

Manisa Celal Bayar University

- Actively participating in the management of the university's network laboratory, supporting institutional operations.
- Playing an active role in coordinating communication between student communities and administrative departments.

Projects

Personal Portfolio Website | Website | ASP.NET Core MVC, EF Core, SQL, Bootstrap

Jan 2026

- Developed a dynamic portfolio platform via **yunusemreacar.com** to showcase technical competencies and projects.
- Designed a management panel (backend) and database structure using ASP.NET Core MVC for seamless project updates.
- Created a mobile-responsive and UX-focused modern interface using Bootstrap 5.

Human Activity Recognition App | GitHub | Python, Flask, Kotlin

Dec 2025

- Designed a system comparing Deep Learning and Federated Learning model performances as part of a thesis project.
- Achieved accuracy rates of 93.72% for the Federated Model and 94.64% for the Deep Learning Model.
- Managed model operations with Flask API and implemented on-device inference in a Kotlin/Jetpack Compose Android app.
- Conducted benchmark tests based on accuracy, F1 score, and energy efficiency metrics.
- Implemented data persistence for model info and transaction history using Jetpack Datastore.

Blockchain Management System | GitHub | Python, FastAPI, SQLite, Bootstrap

Nov 2025

- Developed an educational blockchain system featuring mining, wallet management, and transaction tracking.
- Implemented ECDSA-based cryptographic structures for secure transaction signing processes.
- Ensured network security and block production using a customized Proof-of-Work (PoW) algorithm.

WeatherApp - Native Android App | GitHub | Kotlin, Jetpack Compose, MVVM, Retrofit

June 2025

- Developed a modern weather interface using Jetpack Compose and Material3 following the MVVM architecture.
- Enabled real-time global data processing through Retrofit and OpenWeatherMap API integration.
- Integrated periodic notification services with AlarmManager and stored user preferences via Jetpack Datastore.
- Added dynamic backgrounds that change according to real-time weather conditions.

WordGame - Language Learning Platform | GitHub | ASP .NET Core MVC, EF Core, SQL, Bootstrap

May 2025

- Optimized vocabulary learning through gamification techniques, developed with .NET 8.0 architecture.
- Provided secure user management with ASP.NET Core Identity and automated EN/TR localization using IViewLocalizer.
- Designed JavaScript-based interactive Wordle-like puzzles and a dynamic quiz system.
- Built an analytical data tracking dashboard for user progress statistics using EF Core.

React Mini Projects | GitHub | React, JavaScript, Material UI

Aug 2024

- Developed three distinct projects using React and Vite: Course App, To-Do App, and E-Commerce App.
- Designed modern, responsive user interfaces using Material UI components.
- Demonstrated modular React development practices through various learning stages.

Technical Skills

Programming Languages: Python, C#, Kotlin, JavaScript, SQL

Developer Tools: VS Code, Android Studio, GitHub

Frameworks/Technologies: ASP.NET Core, React, Android SDK

Languages: Turkish (Native), English (Upper-Intermediate/B2)

Certifications: **English:** B2 (BTK Academy), B1 (Just English); **Software:** C#, SQL, OOP, Git-GitHub (BTK Academy), JavaScript (Udemy)