

Umut Albayrak

Backend Developer | Computer Engineering Student
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Summary

Computer Engineering student focused on building scalable backend systems using C# and .NET 8 technologies. Experienced in RESTful API architecture, database design, and cloud (Heroku) deployment processes. A Junior Backend Developer candidate capable of taking a project from concept to production environment, prioritizing performance and data security.

Technical Experience

Wish Tree API (Backend System) *Backend Developer*

- **Architected** and **developed** a scalable RESTful Web API using .NET 8, enabling users to create anonymous time-capsule messages.
- **Designed** the PostgreSQL database schema using a Code-First approach and optimized data access with Entity Framework Core.
- **Implemented** server-side validation mechanisms and exception handling structures to ensure system stability and data integrity.
- **Managed** the deployment process to Heroku cloud servers, configuring the production environment for continuous availability.
- **Analyzed** system performance under load, successfully managing traffic for 50+ active users within the first 24 hours of launch.

DatingApp2025 *Backend Developer & Scrum Master*

- **Undertook** both Backend Developer and Scrum Master roles in a 5-person team project.
- **Developed** authentication, reporting, and matching modules using ASP.NET Core Web API.
- **Integrated** Google Firestore NoSQL database with the backend to ensure persistent and fast data access.
- **Ensured** timely project delivery by managing sprint planning and daily meetings as a Scrum Master.

HUBookReadingSystem - API *Personal Project*

- **Developed** RESTful services using ASP.NET Core with N-Tier architecture to digitize library management processes.
- **Designed** the relational database model using the Entity Framework Core Code-First approach.
- **Applied** the Generic Repository Design Pattern to prevent code duplication and facilitate maintenance.

TimeTracker - API *Personal Project*

- **Built** a modular backend infrastructure with N-Tier architecture for tracking working hours.
- **Implemented** Dependency Injection principles to manage dependencies and ensure a testable (loose-coupled) structure.

Skills

Programming Languages: C#, C++

Backend Technologies: .NET 8, ASP.NET Core, Entity Framework Core, RESTful API

Databases: PostgreSQL, MSSQL Server, Google Firestore

Tools & DevOps: Heroku, Git, GitHub, Postman, Swagger

Methodologies: Scrum, Agile, Clean Architecture

Education

Van Yuzuncu Yil University Van, Turkey
B.Sc. in Computer Engineering Oct 2023 – Jun 2027

Certificates

- HackerRank C# (Basic) Certificate – 2025

Languages

- Turkish – Native
- English – Pre-Intermediate (A2)

Community & Volunteering

Ogrenci Kariyeri	<i>Campus Representative</i>	Dec 2025–Present
Coderspace	<i>Event Operations Intern</i>	Oct 2025–Nov 2025
IEEE CS TR SAC	<i>Project Team Member</i>	2025–Present
Developer Community	<i>Board Member</i>	2025–Present