

# ALPEREN SAMURLU



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## Software Engineer

Hello, I'm Alperen Samurlu, a senior Software Engineering student passionate about Backend Development. I specialize in the .NET ecosystem, developing secure and high-performance applications using **ASP.NET Core** and **Web API**.

During my 6-month professional experience at Volosoft (ABP.io), I gained practical experience in **Clean Code** principles, **Domain-Driven Design (DDD)**, and scalable software architectures. I applied these methodologies to architect a **Full-Stack Referral System**, implement a dynamic **Slug infrastructure**, and enhance platform security by developing an **AI-powered Spammer Detection** system. Additionally, I contributed to the **Open Source Cms-kit** module and built **Telemetry reporting** tools.

Beyond software development, I enjoy playing chess, which sharpens my analytical thinking and strategic approach. My goal is to establish a career as a backend-focused developer and contribute to large-scale projects with the concrete expertise I've gained.

## PROFESSIONAL EXPERIENCE

**Volosoft** | *Backend Developer* | (August 2025 – December 2025)

- Designed and developed a full-stack **Referral System** (from database schema to frontend), enabling user reference tracking and growth mechanics.
- Engineered an **AI-powered Spammer Detection System**, integrating both backend logic and admin panel interfaces to enhance platform security.
- Implemented a dynamic **Slug infrastructure** to manage module URLs efficiently, improving SEO and routing flexibility.
- Contributed to the **Open Source CMS-kit module**, adding new features and optimizing existing functionalities within the ABP.io ecosystem.

**Volosoft** | *Backend Developer Intern* | (June 2025 – August 2025)

- Developed a custom **Telemetry Reporting Page** in the admin panel to analyze and visualize ABP Studio usage data.
- Integrated the "**Past Raffles**" page into the web interface, enhancing user engagement features.
- Audited and tested **ABP.io documentation**, reporting inconsistencies to improve the developer experience.

## TECHNICAL SKILLS

- Programming Languages: C, C#, Java, Python , JavaScript , TypeScript
- Web Technologies: .NET, HTML, CSS, Angular
- Databases: SQLServer, MySQL, PostgreSQL
- Mobile Development: Flutter
- DevOps: Docker

## PROJECTS

### AIFR - AI-Powered Recipe Recommendation Platform

AIFR is an AI-driven recipe discovery platform built on the **ABP.io** infrastructure using **.NET** and **Angular** technologies. By processing the **Recipe1M+ dataset**, the system offers a vast and high-quality pool of recipes. At the core of the recommendation engine lies **vector analysis** based on user interactions. When a user likes a recipe, the system retrieves its **vector embedding** and performs a mathematical **similarity search** across the database. Through this vector matching, the system dynamically lists the alternatives most aligned with the user's taste preferences.

### Community To-Do Site

Community To-Do is a modern to-do list site that combines individual and community-based task management. Users can track their personal tasks while also collaborating with communities to share tasks on joint projects. This project offers a secure and scalable experience with a robust backend infrastructure.

### Student Life Analysis Project

A data science project that analyzes students' academic performance, socio-economic status, and lifestyles. It identifies key factors affecting student success, such as family income, region of residence, and relationship status, using Python and data analysis libraries. This study provides detailed insights into the relationship between education and social life

### Digital Image Processing GUI

Developed a desktop application using Python and PyQt5 for digital image processing. Supports adjustments to loading, edge detection, color transformations. Built with a modular structure for easy expansion and future feature integration. Provides an interactive and user-friendly GUI for real-time image manipulation.

**EDUCATION** : Konya Technical University | Software Engineering (4th Year) | GPA: 3.08

**LANGUAGES** : Turkish (Native) | English (B2)

**CERTIFICATIONS**: Google Developer Groups DevFest 2022