



## Halil Toksöz

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**HackerRank:** <https://www.hackerrank.com/toksozhalil>

**Home:** 35190 Izmir (Türkiye)

### ABOUT ME

Driven by a passion for computer engineering, I started my journey at a young age, crafting my first PHP website at 9 and developing a Unity game at 13. With over 7 years of expertise, including 2+ years of professional experience, I am an accomplished Backend-focused Full-stack Developer dedicated to delivering impactful projects and ensuring utmost customer satisfaction.

Proficient in .NET Core, JavaScript, TypeScript, SQL/NoSQL, and server-side web design, I possess a strong command of Node.js, Java, Python, Angular, React, and frontend development.

By combining technical expertise with a profound understanding of client needs, I develop user-centric websites, offering well-designed, testable, maintainable, and efficient code solutions to address critical business requirements.

Committed to continual growth, I am poised to contribute my creativity and expertise to your company. Stays up to date on emerging technologies and techniques.

### WORK EXPERIENCE

#### Backend Developer

**Forwardie** [ 08/2023 – Current ]

**City:** Izmir

**Country:** Türkiye

- Contributed to the development and optimization of a large-scale microservices project using PHP 7.4 and Laravel 8 as core technologies. Responsibilities encompassed system architecture design, feature development, debugging, code refactoring, and architectural improvements.
- Played a key role in the architectural design phase of new microservices, acting as the primary architectural consultant and working closely with the team leader.
- Advocated for the adoption of gRPC as the preferred communication protocol between microservices. Developed a FileServer demo using .NET Core and Nest.js in an impressive timeframe of three days. Successfully presented this communication strategy within the team and received approval.
- Designed the infrastructure and architecture for AI automations to be developed using ChatGPT. This innovative infrastructure simplified the development process, making the integration of new AI automations easier and saving significant time.
- Outstanding performance in sprint cycles, achieving first place six times in a three-month period. Maintained consistently high productivity, exceeding expectations with 105 story points (SPs) in one week compared to an expected weekly average of 25 SPs. Continued this impressive performance the following week with 74 SPs, once again topping the team.

#### Backend Developer

**Mallconomy** [ 03/2023 – 07/2023 ]

**City:** Izmir

**Country:** Türkiye

- Achieved a 20% increase in user engagement by implementing performance enhancements and code improvements for a microservice project with over 5 clients and 100,000+ users, utilizing .NET Core and MongoDB.
- Planned, designed architectures, and implemented technical solutions for new features, ensuring meticulous coding and detailed planning. Executed feature enhancements and implemented code improvements to drive efficiency and performance.
- Led the Docker and Kubernetes infrastructure to facilitate the migration to microservices architecture, resulting in a 30% reduction in deployment time and increased scalability.
- Developed an automated system leveraging Google Sheet API to efficiently handle ban operations, reducing the processing time from 5 days to less than 5 hours and ensuring a seamless experience for 50,000 users.
- Successfully integrated Web3 tools on Node.js to retrieve NFT data from Smart Contracts and seamlessly communicate it to our microservice project built on .NET Core using Azure Service Bus.

## **.NET Developer**

*Siskon Automation & Software* [ 02/2022 – 03/2023 ]

City: İzmir

Country: Türkiye

### **Key Qualifications and Responsibilities**

- Planned, developed, refactored, and debugged software components for machine communication in .NET Core, utilizing TCP/IP Socket programming based on functional requirements and documentation.
- Implemented advanced algorithms and code optimizations, resulting in a 30% reduction in application response time and improved overall performance.
- Improved code maintainability and scalability with optimized T-SQL queries, project architecture, and asynchronous programming.
- Mentored two interns and played a role in their technical growth.
- Attended daily meetings, contributed to the decision-making process, playing a key role in the team's success in delivering high-quality software solutions.

### **Key Achievements**

- Led the adoption of asynchronous programming techniques, reducing data collection waiting time from 20 minutes to just 1 minute.
- Obtained loosely coupled and reusable codes by extracting the information specified within the application into XML files and reading them.

**Languages & Frameworks:** .NET Core 6, TFS, Azure, WCF.

## **Fullstack Developer**

*Amatis* [ 01/2021 – 12/2021 ]

City: İzmir

Country: Türkiye

### **Key Qualifications & Responsibilities**

- Spearheaded end-to-end development, data visualization, refactoring, improving, and decision-making of microservice-based web applications as a Full-stack Developer, utilizing .NET 5 and Angular 11.
- Successfully implemented Hangfire for event monitoring and management, handling 84 events, and improving overall system reliability and efficiency.
- Developed user role-specific and subscribable mail and notification services, enhancing the user experience and increasing engagement by around 25%.
- Led the development of advanced filtering features for navigation properties using Expressions and Reflections, resulting in a 40% reduction in user search time and improved data accessibility.

### **Key Achievement**

- Prototyped and delivered a new product within two days, showcasing strong design and development skills and meeting strict deadlines.
- Hired by showing his knowledge and talent among four other candidates.
- Designed and developed the infrastructure for use in future projects by Clean Architecture approach, CQRS pattern, AOP, and OOP principles.

**Languages & Frameworks:** .NET Core 5 & Angular 11+, C#, JavaScript and TypeScript, Git, AutoFac, Automapper, Fluent Validation, Masstransit, MediatR, RabbitMQ, MinIO, Docker, SignalR, Hangfire, Ocelot, RXJS, D3JS.

## **PROJECTS**

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### **Clean Architecture — Kodlama.io.Devs**

- Coded a robust infrastructure project using the Clean Architecture approach, CQRS, MediatR pattern, and AOP principles with .NET Core 6.
- Used various technologies such as Automapper, Swagger, Serilog, FluentValidation, EntityFramework, MediatR, Redis, SignalR, RabbitMQ, and Elasticsearch

Link: <https://github.com/haliltoksz/Kodlama.io.Devs>

### **Rent a Car**

[ 18/12/2021 – 08/01/2022 ]

- Developed end-to-end car rental web app with .NET Core and Angular.
- Implemented Cross-Cutting Concerns with AOP principles.
- Used Autofac, Automapper, Swagger, FluentValidation, EntityFramework, RxJS, JavaScript, TypeScript.
- Implemented these Design Patterns: Adapter Pattern, Repository Pattern, Observer Pattern, Factory Pattern.

Link: <https://github.com/haliltoksz/RentaCar>

## HR Management

[ 18/05/2020 – 21/05/2020 ]

- Developed HR Management desktop application with C#.
- Used these Data Structures: Binary Tree, Hash Chain, Graph.

Link: <https://github.com/haliltoksz/VeriYapilariProje-InsanKaynaklariBilgiSistemi>

## EDUCATION AND TRAINING

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### Bachelor of Science in Computer Engineering

*Izmir Bakırçay University* [ 08/2018 – 05/2022 ]

City: Izmir

Country: Türkiye

Website: <https://bakircay.edu.tr/>

Final grade: 3.24

**Relevant Coursework:** Software Architecture and Design, Advanced Web Programming, Object Oriented Programming, Algorithm Analysis and Design, Parallel and Distributed Programming, Computer Networks, Operating Systems, Machine Learning, Introduction to Natural Language Processing, Deep Learning.

**Achievements:** Vice-president and founding member of the AI Community.

**GPA:** 3.24

### GDG DevFest IZMIR 2022 — Google Developers Group

*GDG DevFest - Google Developers Group*

City: Izmir

Country: Türkiye

Website: <https://developers.google.com/community/devfest?hl=tr>

### AWS Cloud Practitioner Essentials Day Webinar — AWS

*AWS* [ 16/06/2022 – Current ]

Website: <https://aws.amazon.com/tr/events/webinars/NAMER-event-OE-20230403-AWS-Cloud-Practitioner-Essentials-Day-2023-reg-event/>

### GDG DevFest IZMIR 2018 — Google Developers Group

*GDG DevFest - Google Developers Group*

City: Izmir

Country: Türkiye

Website: <https://developers.google.com/community/devfest?hl=tr>

### Senior .NET Course

*Kodlama.io*

Website: <https://www.kodlama.io/p/yazilim-gelistirici-yetistirme-kampi1>

### .Net and Angular Full-Stack Course

*Engin Demiroğ* [ 07/01/2021 – 22/03/2021 ]

Website: <https://kodlama.io/p/yazilim-gelistirici-yetistirme-kampi>

Helped new programmers on Kodlama.io Discord Channel as a Q&A Support Officer.

### Problem Solving Intermediate Certificate

*HackerRank* [ 05/04/2022 – Current ]

Website: <https://www.hackerrank.com/certificates/3bea3b3ab314>

## PUBLICATIONS

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### gRPC - Ultimate Guide

[2023]

Link: <https://medium.com/@haliltoksz/mastering-grpc-the-ultimate-guide-9e6e65ff9f71>

### Yazılım Yaşam Döngüleri

[2019]

Link: <https://medium.com/@haliltoksz/yazılım-yaşam-döngü-modelleri-d2e8696ab50e>

## COMMUNICATION AND INTERPERSONAL SKILLS

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### Skills

#### Hard skills:

- .NET Core, Angular, React, Next.js, Node.js, Express.js, Nest.js, SQL, NoSQL, C#, JavaScript, TypeScript, Java, Python, PHP
- AWS Cloud, Docker, RabbitMQ, SignalR, Hangfire, Redis, ElasticSearch, EntityFramework, Git, JIRA
- Design Patterns, Microservices, TDD, DDD, Event-Driven Design, OOP & AOP, Clean Code, SOLID
- Data Structures and Algorithms
- Software Architectures
- Hand-on experience in Microservices Development
- Data science and machine learning
- Agile processes ( SCRUM )

#### Soft skills:

- Analytical thinking
- Problem-solving skills
- Excellent communication skills
- Adaptability
- Teamwork
- Time management

## LANGUAGE SKILLS

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Mother tongue(s): **Turkish**

#### Other language(s):

##### English

**LISTENING** B2 **READING** B2 **WRITING** B2

**SPOKEN PRODUCTION** B1 **SPOKEN INTERACTION** B1

*Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user*