

# YUSUF ÇIRAK

## Backend Developer

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### SUMMARY

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Backend Engineer with 4 years of experience in .NET, cloud infrastructure, and distributed systems. Proven ability to architect microservices handling millions of events daily with horizontal scalability and fault tolerance. Strong communicator and mentor with expertise in cross-functional collaboration, technical leadership, and knowledge sharing. Specialized in event-driven architecture, DevOps automation, and API design across Banking, AI, and IoT domains. Experience with Azure and Huawei cloud platforms.

### WORK HISTORY

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#### NextLua

Jul 2024 – Present

*Backend Developer*

*Remote*

- Designed a horizontally-scalable fleet-management platform for real-time IoT analytics, decreasing client wait times by 70%.
- Led API design for fleet analytics platform, defining RESTful endpoints and GraphQL schemas for real-time data visualization.
- Optimized the .NET CI/CD pipeline with parallel builds and Docker layer caching, halving build time.
- Reduced GC pressure and CPU load by 50% with RecyclableMemoryStream, enabling high-throughput image processing.
- Mentored a junior engineer for six months, increasing task completion speed by 70% via targeted code reviews.
- Implemented Test-Driven Development for trip processor and driver analytics, attaining over 90% code coverage and decreasing post-release defects by 40%.
- Delivered technical presentations on Modular Monolith and GraphQL to cross-functional teams, fostering collaborative learning culture.

#### Volosoft

Mar 2024 – May 2024

*Angular Developer*

*Remote*

- Enhanced Angular/TypeScript libraries within ABP Framework serving thousands of developers worldwide.
- Optimized library performance and maintainability for both open-source and enterprise customers.

#### Fibabanka

Aug 2023 – Mar 2024

*Jr. Software Engineer*

*Istanbul, Turkey*

- Built DataOps platform with Outbox pattern for reliable DDL/DML change management, achieving 95%+ production success rate and preventing data incidents.
- Designed automated test infrastructure with Python and Locust, reducing manual testing time by 70% through smoke and performance testing integration.
- Managed IIS production servers and incident response, maintaining 98% uptime for critical banking applications.

#### Fibabanka

Mar 2023 – Jul 2023

*Software Developer Intern*

*Istanbul, Turkey*

- Re-architected Software Catalog application with dynamic schema management, eliminating 85% of deployment overhead.
- Applied bulk approval functionality for Continuous Delivery workflows, decreasing manager approval time by 75%.
- Modernized legacy applications to .NET and Angular stack, improving developer productivity.

#### Occicor

Nov 2022 – Mar 2023

*Software Developer*

*Istanbul, Turkey*

- Built full-stack image annotation tool enabling ML model training with 93% accuracy through precise data labeling.

#### Poyi Technologies

Jun 2022 – Sep 2022

*Backend Developer Intern*

*Istanbul, Turkey*

- Architected webhook-based payment processing system, decreasing callback response time by 50%.
- Established comprehensive API documentation standards using Docusaurus, improving developer onboarding efficiency.

## PROJECTS

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### **StreamingApp**

*stream.yusufcirak.net*

- Built real-time streaming platform handling 1000+ concurrent users with NGINX-based video delivery, WebSocket chat, role-based moderation, and IP-based rate limiting for DDoS protection.

### **ChatApp**

*chat.yusufcirak.net*

- Built real-time messaging platform with private/group chat, media sharing, and SignalR handling 500+ concurrent connections with sub-100ms latency.

### **Discord Clone**

*dc.yusufcirak.net*

- Created full-featured communication platform with voice/video support, server management, and real-time messaging serving 200+ active users.

### **Ravorcollection.com**

*E-Commerce Platform*

- Launched on-premises e-commerce solution with Next.js, featuring inventory management and payment gateway processing 100+ monthly transactions.

## TECHNICAL SKILLS

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**Programming Languages:** C#, Go, TypeScript, Node.js, Python, Rust

**Backend Frameworks:** ASP.NET Core, .NET, Entity Framework Core, NestJS, Express, Flask

**Frontend Technologies:** Angular, React, Next.js, SignalR, WebSocket

**APIs & Protocols:** REST, GraphQL, gRPC, WebSocket

**Databases:** MSSQL, PostgreSQL, MongoDB, Redis, Elasticsearch, Couchbase

**Cloud & DevOps:** Docker, Kubernetes, Linux, Nginx, IIS, Azure DevOps, GitHub Actions, Azure (VM, Storage), Huawei Cloud

**Security:** IP-based Rate Limiting, DDoS Protection, Authentication & Authorization, Secure API Design

**Message Brokers:** RabbitMQ, Kafka

**Monitoring & Observability:** ELK Stack, OpenTelemetry, Grafana, Prometheus

**Testing & Quality:** Unit Testing (xUnit, NUnit), Integration Testing, Load Testing (k6, Locust), Test-Driven Development, Sonatype Nexus

**Architecture Patterns:** Microservices, Event-Driven Architecture, CQRS, DDD, Vertical-Slice Architecture, Clean Architecture, Design Patterns, OOP

**Methodologies:** Agile, Scrum, Kanban, CI/CD, DevOps

## OPEN SOURCE & COMMUNITY CONTRIBUTIONS

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### **Activepieces - DIMO Integration**

*TypeScript, Node.js*

- Contributed IoT device integration piece to open-source workflow automation platform.

### **Database Introduction with MSSQL — YouTube Educational Series**

*2023*

- Created 12-video tutorial series on SQL fundamentals: Backup/Restore, DDL/DML, Views, Aggregations, Stored Procedures, Indexing.

## EDUCATION

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### **Sakarya University**

*Bachelor of Management Information Systems*

Sep 2019 – Jul 2023

*Sakarya, Turkey*