

# Halil Bozdogan

Senior Software / DevOps Engineer

Ankara, Turkey   [halilbozdogan@gmail.com](mailto:halilbozdogan@gmail.com)   [halilbozdogan.com](https://halilbozdogan.com)   [github.com/halilbozdogan](https://github.com/halilbozdogan)

[linkedin.com/in/halilbozdogan](https://linkedin.com/in/halilbozdogan)

## SUMMARY

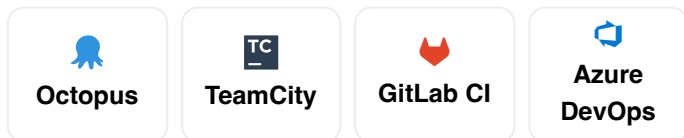
Senior DevOps Engineer with over 15 years of experience transitioning from .NET software architecture to cloud-native infrastructure. Expert in modernizing legacy systems, managing high-traffic Kubernetes clusters, and automating complex CI/CD pipelines. Proven track record of bridging the gap between development and operations to improve system reliability, performance, and developer velocity.

## TECHNICAL SKILLS

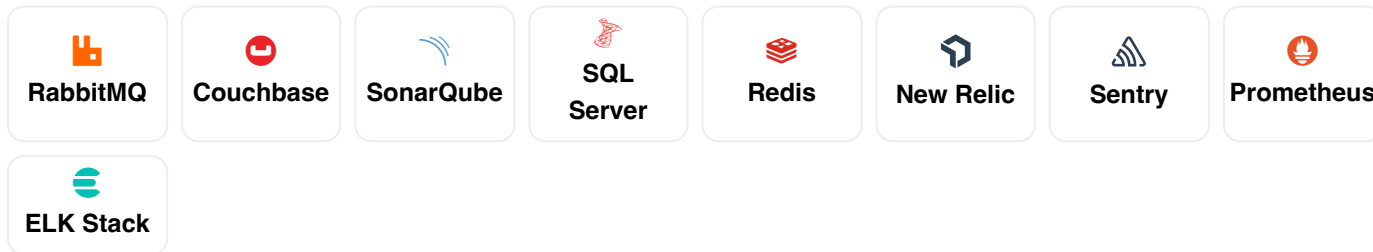
### DEVELOPMENT & CORE CLOUD



### CI/CD & ORCHESTRATION



### DATA & OBSERVABILITY



## CERTIFICATIONS



### Certified Kubernetes Administrator (CKA)

Cloud Native Computing Foundation (CNCF) — Issued Nov 2024

## EXPERIENCE

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### Senior DevOps Engineer — Nesine

May 2023 – Present

*Turkey's Leading Legal Online Betting & Gaming Platform*

#### Key Challenge: Mission-Critical Scale

I orchestrated the 24/7 zero-downtime infrastructure for Turkey's largest betting platform, ensuring 99.99% availability and real-time data consistency with minimal latency during high-traffic live sports events.

- **Advanced Autoscaling:** Implemented **KEDA** for event-driven autoscaling, configuring dynamic pod scaling based on **RabbitMQ** queue depth and custom **ASP.NET Core** metrics.
- **Kubernetes Migration:** Led the full migration from VM-based deployments to Kubernetes using Docker Buildx (Bake), Octopus Deploy, and TeamCity.
- **High-Scale Operations:** Managed resilient infrastructure ensuring uninterrupted service for millions of transactions during high-concurrency windows.
- **CI/CD Architecture:** Implemented Octopus Kubernetes Agents and GitLab Kubernetes Runners for isolated build execution.
- **Observability:** Developed New Relic dashboards for real-time system visibility and deployed self-hosted Sentry for frontend monitoring.
- **Tooling:** Built a Blazor-based internal application to monitor Octopus/TeamCity pipelines and deployed custom NGINX reverse-proxies for centralized logging and caching.
- **Code Quality:** Deployed and managed **SonarQube** instances, integrating them into CI/CD pipelines to enforce quality gates and static analysis automatically.

### Senior Software Engineer — Enocta

Jul 2022 – Apr 2023

*Turkey's Sector Leader in LMS & Digital Learning Solutions*

- Identified and resolved performance bottlenecks in core Web API services.
- Designed multi-timezone operational features for international users.
- Migrated source control from TFS to Git and implemented Azure DevOps pipelines.

## Senior Software Engineer — Tiga Bilgi Teknolojileri

Dec 2015 – Jul 2022

*Global HealthTech Provider Specializing in National-Scale Digital Health Solutions*

### Key Project: National Health System (e-Nabiz)

Architected the backend for Turkey's Personal Health Record System, serving 6 million+ patients. Managed Couchbase clusters (>20TB data) and handled 1M+ daily requests.

- **Modernization:** Led containerization of legacy Windows Service applications to Kubernetes (MetalLB, NGINX-Ingress, Harbor).
- **Code Quality Assurance:** Deployed and maintained **SonarQube** servers to perform continuous inspection of code quality and security vulnerabilities across public sector projects.
- **System Integration:** Designed fault-tolerant integrations for diagnostic imaging and external systems.
- **Software Evolution:** Modernized .NET Core apps from 2.x to LTS versions and refactoring complex codebases.
- **DevOps Implementation:** Established CI/CD workflows using TFS and on-premises Kubernetes clusters.

## Senior Software Engineer — CLF IT Consulting

Apr 2014 – Oct 2015

*Defense & Security Technology Consultancy*

- Developed a high-performance non-blocking web server for custom messaging integrations.
- Collaborated on resilient systems for classified military projects (Security Clearance obtained).

## Software Engineer — Anadolu Agency

Dec 2013 – Feb 2014

*Turkey's Global News Agency & Information Network*

- Designed Windows/Web services to integrate third-party systems into national news infrastructure.

## **Application Development Consultant — Innova**

Sep 2008 – Dec 2013

*Leading Systems Integrator & Software Solutions Provider (Türk Telekom Subsidiary)*

- Conducted requirements analysis and system design for enterprise applications.
- Developed shared frameworks to optimize legacy libraries and performance.
- Mentored interns and junior developers on coding standards and best practices.

## **System Support Chief — Demir Export A.S.**

Oct 2007 – Aug 2008

*Major Mining & Industrial Company (Koç Holding)*

- Administered Windows Server and Active Directory infrastructure.
- Deployed and customized SharePoint-based collaboration environments.

## **SELECTED PROJECTS**

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- **Turkey Scholarships System (2016):** Built Azure Cloud architecture handling 150,000 applications/month.
- **Ministry of Youth & Sports (2019):** Digitized ministry operations and optimized legacy code performance.
- **Central Bank Integration (2014):** Parsed Reuters RS232 serial messages for financial data portals.

## **EDUCATION**

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**Hacettepe University** — Computer Education and Instructional Technologies

Dec 2001 – Dec 2005 | GPA: 3.13 / 4.0