# Halil Bozdoğan

## Senior Software Engineer.

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## About

I am a Senior Software engineer.

I have developed, managed, analyzed, and deployed enterprise applications and solutions in many companies.

I mainly use C# as my primary programming language but can work with other OOP languages. I have specialized in back-end and performance optimizations in applications.

I actively participate in deployments, management, and optimizations in projects

## Experience

### **Senior Software Engineer,** [***Tiga Bilgi Teknolojileri A.Ş.***](https://www.tiga.com.tr) (Dec 2015-present, Ankara,TR)

* Develop and manage large government projects.
* Design and develop high availability and fault tolerance systems.
* Make the decisions for tech stack on projects as a technical leader.
* Code Optimization on large and old code bases.
* Fixing security-related bugs.
* **Projects**
  + **National Health System - e-Nabiz** (https://www.enabiz.gov.tr)
    - Over 1 million daily requests from Health Care providers.
    - Over 6 million patient data with 20 TB+ capacity on NoSQL (Couchbase) Database.
    - 150+ Servers on NoSQL Database.
    - Serving e-Nabiz Portal with high availability.
    - Integration with other systems in or outside of Ministry of Health which includes Diagnostic Imaging service.
    - Deployment and Configuration for Kubernetes Ecosystem which includes MetalLB, nginx-ingress, Harbor Registry
    - Configuration for CI/CD Operations with TFS and On-Premise Kubernetes.
    - Migrating old .Net Core projects to recent framework versions.
    - Converting Windows Service projects to Docker containers and deploying them to Kubernetes clusters.
  + **Ministry of Youth and Sports - E-Transition System** (https://www.gsb.gov.tr)
    - Finding bottlenecks in legacy code.
    - Designing and developing reports for various modules.
    - Helping junior staff with their assignments.
  + **Turkey Scholarships Application System** (https://www.turkiyeburslari.gov.tr/)
    - Azure Cloud Project, Webapps, Azure Functions, Azure SQL Database.
    - Service Based architecture for easy scalability.
    - On 2019 over 150 thousand applications within 1 month.
    - Performance monitoring and finding bugs with Application Insights.
    - Complex application filtering for decision makers on portal.

### **Senior Software Engineer, *CLF IT & Management Consulting*** (Apr 2014 - Oct 2015, Ankara, TR)

* Actively participated in analysis, design, and development of projects.
* Able to obtain security clearance for military projects.
* Wrote a High-Performance Non-Blocking web server for custom messaging integrations.
* **Projects**
  + **Corporate Portal for HR & Finance**
    - Requirement analysis.
    - Identifying work flows for Finance Department with client meetings and on field analysis.
  + **Network Device Monitoring and Management**
    - After analyzing customer bug reports and field experiences, determined the bottlenecks of application and work flows.
    - Optimizing old code for performance and bug fixes.
    - Adapting new technologies for better system reliability.

### **Software Engineer, *Anadolu Agency*** (Dec 2013 - Feb 2014, Ankara, TR)

* Developed windows/web services for the agency to third-party connections across the country.
* **Projects**
  + **Central Bank of the Republic of Turkey Service Integration** (https://aafinans.com)
    - Analyze Reuters Marketlink message protocol (RS232 Serial Port Communications).
    - Analyze Template and Partial Message update system.
    - Receiving update messages from serial port and applying them on correct announcement templates.
    - Keeping version history for messages and announcements in database.
    - Displaying announcements on web portal.

### **Application Development Consultant,** [***Innova IT Solutions***](https://www.innova.com.tr) (Sep 2008 - Dec 2013, Ankara, TR)

* Requirements analysis for projects.
* Training interms and junior developers.
* Architecture and coding of the framework.
* Developed base libraries used across multiple projects.
* Optimized old libraries for better performance.
* Analyzing security reports and fixed insecure codes.
* **Projects**
  + **Loyalty Framework**
    - Requirements analysis, choosing technologies for components.
    - Developing SMS Component (WCF Service) and applying usage in sample project.
  + **Turk Telekom Corporate Brand**
    - Parsing SMSs comes from customers for error correction and similarity analysis with RegEx.
    - Using SOAP Trace library that I developed, saving XML requests from outside services. Making easy to find errors and achieving better system stability.
  + **Bizimle Kazan, Turk Telekom Enterprise Loyalty System**
    - Developed shared library using DSL for determining money penalty who cancels commitment before end time.
    - Development of scheduled tasks using Quartz.NET library and provided management interface for end users.
    - Deployments of Web and Application servers for client.
  + **Turk Telekom, Payphone Statistics Server, and Reporting**
    - Requirements analysis with customers and architecture solution.
    - Data analysis of pay phone companies sent to Turk Telekom.
    - Optimizing and improvements of Data Access Layer that taken from an old project for speed and reliability.
  + **TT Nokta – Multimedia Payphone**
    - Simplified Image based deployment solution. Ready to start HDD preparations with full user experience.
    - Automatic Backup - Update - Restore solution with using minimal bandwidth over Remote Web Services.
    - URL control for Internet Module. (using Regex only valid URLs can be entered to address bar and disables in URL malicious).
    - Application and Web Server load balancing and security configurations. Optimizing IIS App Pool parameters for scalability.

### **System Support Chief,** [***Demir Export A.Ş. (Mining Division of Koç Group)***](https://www.demirexport.com/) (Oct 2007 - Aug 2008)

* SharePoint Deployment and Configurations.
* Writing SharePoint Work flows.
* Administered Active Directory and various Windows Servers

## Skills

* .NET Core / C#
* ASP.NET / MVC
* RDBMS / NoSQL
* Kubernetes Eco System
* Object-oriented design
* Design and implement frameworks for large projects
* Finding performace bottlenecks in codes
* Strong DevOps skills

## Certificates

* **Microsoft Certified App Builder**, Microsoft Certified Solution Developer, 2018
* **Enterprise Application Developer**, Microsoft Certified Professional Developer, 2010

## Education

* **BSc in Computer Education and Instructional Technology**, *Hacettepe University* (2001-2005)