

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.* (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* (Sep 2008 - Dec 2013, Ankara, TR)

- Requirements analysis for projects.
- Training interns 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)* (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)