



Tobias Mundt

"To predict the future, invent it!"

Software Consultant and Architect

Skills

I am a Full-Stack-Developer with 20+ years of experience in over a dozen huge projects at various mid size and industry grade companies. My main focus lies on Microsoft based technologies, like .NET and Azure, but I am always open to new technologies where their usage is more appropriate. I am convinced that learning never ends and there is always room for **improvement**.

C# / .NET-Framework (+20 years)

ASP.NET (WEB APIs, HTTP(S), REST) (+15 years)

Microsoft Azure, Compute, Storage Account, Azure SQL, CosmosDb, Service Bus, IoT-Hub, Azure-Functions

Unit-/Integration Testing (Nunit, xUnit, Moq) (+10 years)

Entity Framework 6 / Entity Framework Core (+10 years)

Frontend Development (Angular, TypeScript, CSS3) (+5 years)

Development Processes (Scrum, Kanban, CMMI, A-SPICE) (+8 years)

CI / CD (Azure DevOps, Jenkins, GitHub, SonarQube) (+8 years)

.NET Core (+5 years)

.NET .NET Core .NET Compact Framework .NET Remoting Active Records ActiveX Android-SDK Anuglar2 AOP ASP.API ASP.Core 2.2 ASP.Core API ASP.MVC ASP.NET ASP.NET Ajax ASP.NET Core 2+ ASP.WebForms Azure Service Bus Azure Web-API Azure-App-Services Azure-Cloud-Service Azure-IoT-Hub Azure-SQL Azure Storage C C# C++ COBOL-85 COM/COM+ Crystal Reports EF.Core Entity Framework EPPlus IoC jQuery LINQ MFC Ms-Access MS-AMQ MySQL OpenLayers3 OpenStreetMap P/Invoke Pervasive PosgreSQL PostSharp Roslyn SignalR Silverlight SQL-Server SMTP three.js Thrift VB 6 VBA VB.NET vue.js Win32 Windows Phone 8 WPF Xamarin.Forms XML

Language Skills

- German: native language
- English: fluent

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Selected Projects

Since 2021 – ongoing – Software Developer

ZEISS – Digital Health Data

Zeiss Medical is building the Health Data Platform of the future. The platform connects all stakeholders of eye surgery from the devices, clinics and doctors up to the patient, their treatment and aftercare. As a member in one of 5 Scrum teams I worked on the API that parsed and stored health data records coming from medical examinations. This process transferred classical DICOM data into FHIR, binary and CosmosDB data. This development was done completely on top of the Azure platform utilizing a wide range of technologies around the Azure Functions in Typescript.

- Azure software development
- Review and quality assurance of other team member results

Azure, Terraform, Azure Functions, Azure-API-Gateway, Application Insights, Postman, EventGrid, CosmosDB, Typescript, Node.JS, JEST, JAVA, DICOMweb, FHIR, Angular, Azure DevOps, Serverless, Scrum, Scrum of Scrum, SAFe

Oct 2018 – ongoing – System Architect

DENSO – Test Bench Management

For a Denso test bench facility I created a web-based ERP/LIS system to manage automotive testing environments. I'm acting as architect and developer. Data and events from test bed environments are integrated. All user roles participating in automotive testing, are using the system to improve their operational test field efficiency. This system was created with ASP.NET Core and Razor-Pages and is integrated into the test automation system using Rest-API, PUMA and Matlab. As a part of the project we created an interconnection between the API and Ms PowerBI and Excel so that reporting can be done by project engineers.

- Requirements engineering and definition
- Software architecture design
- Software development and testing
- Database and API design

ASP.NET Core 3.1, ASP.NET Razor Pages, ASP.NET Core API, EF.Core, ASP.Core API, SQL-Server, STMP, LDAP, jQuery, EPPlus, Blazor


Since 2016 – ongoing – System Architect

Volkswagen AG – Safety Concept eGas

In the role of an architect and as a part of a software team inside the FEV STS GmbH, we developed a SPA web management system to support application engineers in calculating data for electric speed pedals and their security boundaries by using C# scripting in the browser. I was responsible for the design and implementation of the first phase prototype application. In the second phase main project I acted as software architect and developer responsible for core features and modules of the system. The project was selected by the customer as pilot for the implementation of the ASPICE process model within an agile framework. The process implementation was approved by a successful audit.

- Requirements management
- Software architecture design
- Azure Cloud architecture
- Database and API design

Angular2+, Azure Web-API, MsSQL-Server, MySQL, Roslyn, SignalR, Entity Framework, Scripting, A2L, MDX, HEX Automotive-SPICE

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2013 – 2015 – System Architect

FEV + DENSO – Car2X and fleet data

Recording and transmission of vehicle data from the CAN-Bus to the cloud. Data is sent via a messaging server to an Azure Cloud-Service that records all data in a Big-Data-Storage system. This data can be evaluated and visualized in graphs and as map overlays.

- Requirements management
- Software architecture design
- Software development
- Database and API design

.NET, C#, Azure-SQL, ASP.MVC 5, RabbitMQ, Thrift, MS-AMQ, Blob-Storage, Microsoft Azure, three.js, OpenLayers3, OpenStreetMap, PostgreSQL, CAN, GPS, PosgreSQL

Since 2014 - CEO

Darkbird – Azure Cloud-ERP-System

Darkbird is an ERP-Cloud-System managing the operational aspects of security organisations to handle their watch guards with their security routes. The software includes all functions for manpower planning, payroll accounting and guard controlling via smartphone. All features were developed by and for security personnel to meet the demands of their everyday work.

ASP.NET WebForms, jQuery, vue.js, Azure-SQL, Xamarin, Azure-AMQ, Azure Function Apps, Azure Logic Apps, PowerBI, Hichart, Google Maps API, Plivo VoIP API, Google Analytics, Azure MLt

... and many more ...