

Profile



Availability
November 2019

Work Sites
D.A.CH
Western Europe
...

Contact Information
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Position and Technology Focus

Developer, Technical Lead, Architect, Coach.

Microsoft .NET, Microsoft Development Ecosystem, Standard Web Technology.

Product and Tool Development, Reengineering, User Experience, Accessibility.

Development of efficient, mobile, distributed, effective and intuitive applications.

Programming Languages

C#	since 2003	Very high level of proficiency.
JavaScript	since 2009	With jQuery, fabric and other libraries.
SQL	since 1989	Microsoft, Oracle, Informix, ...
C++	since 1989	Formerly very good knowledge, somewhat rusty.
VB.NET	since 1997	Also VBA and other BASIC dialects.

Main Technologies

Visual Studio	1997	Always using latest version.
Microsoft.NET	2003	WebAPI, MVC, ASP.NET, Generics, .NET Core, Standard, ...
Microsoft TFS	1989	Also GitHub, Tortoise, SourceSafe, ClearCase, ...
SQL Databases	1989	Design, ORM, Generator, Performance, Programming.
HTML5, JS, CSS	1989	For creating interactive, user-friendly, fast, graphic, intelligent websites.
Speech Input, Generics, Generators, Parallelism, Porting, OCR, Rapid Prototyping, Decoupling, Object-Oriented Programming, Office, XML, JSON, ...		

Human Languages

German	Mother tongue. Very good, written and spoken.
English	Very good, fluent, written and spoken.
Spanish	Good, written and spoken.

Application Highlights

Stuff I'm proud of

EVV - Web-application for CRM, ERP, Planning. 2015-.... Inhouse system, based on Web technology only. C#, SQL, HTML5, .NET Core.
ZEN browser - Image Management Web-Portal for Digital Microscopy. 2012-.... ASP.NET MVC, C#, Razor, .NET Core, jQuery, fabricjs, OpenSeadragon, dataTables, SQL, WebSockets.
Web Portal Clinical Trials, ERT.com, Medical Technologie, Würzburg. TeamLead. 2010-2011. ASP.NET, C#, SQL, DevExpress, SketchFlow (WPF), LLBLGEN.
Premier Support, Distributed Services, Microsoft GTSC EMEA DSW. 2006,2007-2008. DCOM, COM, WCF, SOA, SOAP, Web, WireShark, CDB, WinDbg, Fiddler, WireShark, Network Monitor.
HiPath ProCenter Dialer Server, complex high-performance server-application. 2004-2005. C#, WindowsForms, ADO.NET, SQL, XML, XSD.
CRM Sales Support System, Siemens eCRM, Frankfurt/M. und Cologne, Porting from MS-ACCESS. 2003-2004. C#, WindowsForms, ADO.NET, Crystal Reports, SQL, XML, XSD, UML.
Generic Test System for Regression Tests, Siemens Med, Erlangen. 2003. Visual C++, MFC, STL, UML, Rational Rose, DTD, XSD, XPath, XML Spy, MSXML, DOM, ClearCase.
POET-EA - Elektronische Akte - HypoVereinsbank AG. Software-Architect, Principal Developer. 1997-2000. VB (VisualBasic), Visual C++, Office 97, Outlook, Exchange, SQL-Server, Documentum, Scanning.
PrimaVista - Presentation Software - Bicom GmbH: Pen-Support and handwriting recognition, undo & redo, screenshots. 1993-1995. C++, MFC, Windows NT 4
VPC33 - Viskosimetry-PC - Schott Geräte GmbH: Control of burettes and electronics scales. The program was used for decades. 1986-1988. C, Interfaces, PC
IPDMS - Integrated Patient Data Management - ADImens GmbH: Technical Project Lead, 3 Developers. Hospital Management. 1986-1988. C, ADImens DB, Network, PC

Projects

2019-Jan	to	2019-Dez	Troubleshooting Web Application
Industrial Measuring, Hagen			
Troubleshooting for a Web application written for Windows 7, with WindowsForms and ActiveX. Created to repro with Microsoft Azure. Coordination of support requests with Microsoft Support. Measurements with various troubleshooting tools, like Fiddler, WireShark, Debuggers, Azure Azure Virtual Machines, ...			
2019-May	to	2019-Jul	ECG Visualization with SVG, Web.
ISV, Gießen			
Prototype Web application for ECG Visualization with SVG, Web. Technology: ASP.NET, HTML5, CSS, JavaScript, C#, ActiveDirectory, IIS, IE.			
2019-Feb	to	2019-May	Software-Update Service and Web UI
Software Development, Bielefeld			
Development of an Update Service with WebAPI and Web-UI for software release management. Used to manage and provide downloads of software product releases for certain customer circles. Technologies: VUE.JS, VUETIFY, Chrome, Firefox, C#, sqlite, Entity Framework, .NET Core.			
2018-Jun	to	2018-Dec	Active Directory Team Folder management web application
ISV, Münster			
An existing ASP.net application for folder management was fixed and extended to support multiple domains. The application is managing team and project folders and allows team leads and other authorized personnel to assign and modify rights on team folders. It creates and manage these folders and their ACL rights. Technology: ASP.NET, HTML5, CSS, JavaScript, C#, ActiveDirectory, IIS, IE.			
2018-Apr	to	...	Vendor Map; in-house map
Bank, Cologne			
Specification, architecture and development of a web-based mapping application, realized without access to the public Internet, without using public services, like Google Maps or Bing Maps. It displays a detailed map of Germany, overlaid by German ZIP code areas and a list of all vendors. By clicking into the map, vendors can be selected by ZIP Code area, by clicking on a vendor it can be located in the map. This task invoiced selection of appropriate, free mapping data and ZIP Code data. It has a very interactive and fast, modern, touch enabled user interface. Technology: ASP.NET, Web API, HTML5, CSS, JavaScript, C#, SPA (single page application), IIS, SQL Server, IE, Chrome, FireFox.			
2017-Aug	to	...	LogVw -- Viewer for huge text files
Cobasoft GmbH			
Implementation of a viewer for huge text files as console application. Technology: C#, .NET Framework, .NET Core.			
2015-Apr	to	...	Web-application for Travel Management
Bank, Cologne			
Specification, architecture and development of a Web application for travel management. Used by management and employees for publishing quick and easy the work location for every day in the week, like a calendar. Very interactive and fast, modern, touch enabled user interface. Technology: ASP.NET, Web API, HTML 5, CSS, JavaScript, C#, SPA (single page application), IIS, SQL Server, IE, Chrome, FireFox.			
2015-Apr	to	...	Web-application for Business Process Change Management
Bank, Cologne			
Specification, architecture and development of a web application for Business Process Change Management, including a small document management. Very interactive and fast. Modern, touch-enabled user interface. Technology: ASP.NET, Web API, HTML 5, CSS, JavaScript, C#, SPA (single page application), IIS, SQL Server, IE, Chrome, FireFox.			
2015-Mar	to	...	Web-application for CRM, ERP, OCR
Machine Construction Company, Cologne Area			
Specification, architecture and development of a web application for Customer Service (CRM) and ERP. The new system started as replacement for a previously used fat-client third-party application. All data from the third-party application was migrated to the new system, including documents and interaction protocols. The new system provides a completed working environment based on Web technology: rich-text editor with text templates, text snippets, variables. It is integrated with the existing production management system (ERP). I also added Microsoft Exchange integration, including email, tasks and appointments. The system is now in heavy use, currently managing about 600,000 documents and 350,000 protocols. And I added OCR and text analysis for all outgoing and incoming invoices. And a new system for the calculation of new devices based on bills of material and a new hierarchic calculation sheet. Technology: * Microsoft Visual Studio 2010-latest, WebAPI, ASP.NET, MVC, Razor, .NET Core. * Microsoft SQL Server 2008-latest, Microsoft Team Foundation Server (TFS) * Azure DevOps CI/CD, Azure Virtual Machines, Azure Function,... * HTML5, CSS, JavaScript, AJAX, JQuery, single-page application (SPA), WebAPI. * Reflector, Fiddler, Cobasoft Generator, OmniPage Pro. * Microsoft Exchange, Excel, IIS, Windows Server, Active Directory. * Firebird, TreeSoft Office, IE, Edge, Chrome, FireFox.			
2015-Oct	to	2016-Oct	Web-application for Stock Management
Chip Production Company, Aargau, CH			
Specification, architecture and development of a web application for Stock Management. The new system is a replacement for two existing Excel/VBA-based applications. It provides a friendly user interface for managing stock. It is used by engineers and operators to put new products (chips and chip assemblies) into stock and used by stock personal for delivery of these products. The system creates protocols for every production and every delivery. The protocols are based on data from backend web services and templates with Excel formulas. The system compiles Excel formulas into C# code and executes the result to produce the protocols. Technology: ASP.NET, WebAPI, HTML 5, CSS, JavaScript, C#, SPA, WCF, IIS, SQL Server, OpenOffice-XML, Excel, VBA.			
2015-Mar	to	2015-Apr	Analysis of a Web-application, performance and structure

Bank, Cologne

Analysis of an existing web application on 3 levels: Web-front-end, C# backend and database.

Substantial performance improvements.

Coaching and advising the team.

Technology: ASP.NET, HTML 5, CSS, JavaScript, C#, IIS, SQL Server, IE, Chrome, FireFox.

2015-Jan	to	2015-Feb	Various Web Sites
Company Office, Munich, Tenerife			
Development of various websites; cross-site integration (mashup), company website. Technology: ASP.NET , HTML 5, CSS, JavaScript, C#, MVC, IIS.			

2014-Oct	to	2014-Dec	Configuration Editor, SQLite, C#, WindowsForms
ABB Turgi, Baden, CH			
Requirements Specification, User Interface Design, Software Development. For configuration of a process control computer, a database editor was required. In coordination with the product manager, the software architect and others, the requirements specification and user-interaction were developed (wireframes). Simultaneously a prototype with substantial functionality was developed. Technology: Visual Studio, Windows Forms, SQL, Wireframes, C#, Web API, ASP.NET			
2012-Jan	to	...	Image Management Web-Portal for Digital Microscopy
High-tech company based in Munich			
The software is for management and presentation of very large (gigabyte) digital imaging bitmaps. The UI is developed exclusively with Web technologies (HTML5, JavaScript, CSS). It contains very flexible navigation, presentation and modification of images and documents. It is running on Windows, OS-X, iOS (iPad, iPhone) WindowsPhone & Surface as well as Android. On all these system, interactive drawing, including freehand, is possible. Even on small screen formats (smart phone, iPhone) the complete functionality is available. The server is realized with ASP.NET, MVC-Razor, C# and T-SQL. It implements Web pages and Web APIs for image and document management. The system contains extensive security features (Users, Groups, Rights, Features), a very flexible data management (configurable document properties and input forms, configurable drill down on all document data and configurable tables and other presentations. Besides the huge images, all other kinds of files are also supported (PDF, Excel, et al). The software can be installed and run easily on Microsoft Azure, so quick and globally distributed deployments are possible. In support of the main system, an upload utility (for very large files) and an installer (for the server application) were developed. All done by myself, including architecture, database structure, software design, graphic design, development and parts of the documentation. Realized in close cooperation with the product management.			
Technology: * Microsoft Visual Studio 2010-latest, ASP.NET, MVC 4, Razor, .NET Core. * jQuery, DataTable, OpenSeaDragon, Fabric.js, et. al. * Microsoft SQL Server 2008-latest, Microsoft Team Foundation Server (TFS), IIS. * DHTML, CSS, JavaScript, AJAX, inkl. single-page technology, WebAPI, Web Sockets. * Reflector, Fiddler, Cobasoft Generator. * International client support.			

2010-Nov	to	2011-Dec	Lead Developer
Web Portal, ERT.com, Medical Technology, Würzburg			
Creating functional specifications (FS). Communication with product management. Maintaining specifications and UML diagrams with Enterprise Architect. Creating UI wireframes and prototypes with Microsoft SketchFlow (WPF). Using TFS to manage the project. Build, RTM, Branch, Merge, Version. Involvement in User Interface and Feature Design. Troubleshooting and Debugging, Performance Analysis.			
Technology: * Sparx Enterprise Architect 8. * Microsoft Visual Studio 2008 Pro and 2010 Premium with TFS 2010. * Microsoft Expression 4 Ultimate, Blend 4 with SketchFlow. * Microsoft SQL Server 2005 and 2008. TFS 2010. * Oracle 11g Client and SQL Developer and Quest TOAD. * ASP.NET 3.5 and 4.0 with AJAX and DevExpress tools. * JavaScript, jQuery, Internet Explorer, Firefox. LBLGEN. * Microsoft .Net Framework 3.5 and 4.0..			

2010-May	to	2010-Oct	Troubleshooting and Development
Bosch Security System, Industry, Munich			
Troubleshooting and Debugging, Performance Analysis, WCF REST Web Services. Coaching, Analysis of User Authentication and Security. COM and RCW Debugging. Setting up Symbol Server with PowerShell and PowerShell. C#, C++, C++/CLI, Visual Studio 2010, 2008, 2005, Active Directory. TFS, Cruise Control, Wiki, Spring, log4net. Agile Development, SCRUM, UML. Video Management, GUI, Networking, Database, Graphics.			
2010-Apr	to	2010-Apr	Coaching and Troubleshooting
ASP.NET and SQL Application, AZ-Software, Munich			
Coaching related to data access, ASP.NET GUI, development and architecture. Troubleshooting database problems with SQL Server 2008.			
2010-Apr	to	2010-Apr	Trainer
3-day WPF course, HILF GmbH, Munich			
Accessibility, Animations, Annotations, Architecture, Data binding, Deployment, Documents, Effects, Expression Design, Imaging, Internet Explorer, Interoperability, Layout, Media Services, Templates, Text, Tools, XAML.			
2010-Jan	to	2010-Apr	Developer, Web Security
Shared Web Hosting, 1&1 Internet AG, Karlsruhe			
Evaluation of security and performance aspects of IIS 7.5 features, esp. Feature Delegation. Internet Information Server configuration, IIS extensibility. Development of test procedures and specifications. Evaluation of LINQ options. Plain, expression trees, Linq2SQL, deferred execution. LINQ-to-SQL security settings, tests, documentation. Modification of web server security options. Planning, implementation, management of IIS options, esp. Security-related options. Wiki Documentation. Subversion (SVN), Tortoise.			
Technology:			
* Microsoft IIS 7.5 (Internet Information Server)			
* Programming and testing Authentication and Authorization.			
* Creating web-sites, application-pools, applications.			
* Configuring various options and working directly with configuration files.			
* Microsoft Windows Server 2008 R2.			
* Hyper-V and VM administration.			
* Microsoft SQL Server 2008, Database setup, performance tests, access with LINQ-to-SQL.			
* Visual Studio 2008, C#, ASP.NET 3.5, ADO.NET, LINQ, LINQ-to-SQL.			
* Development of tests. Code-Access-Security, ACL Security, ICACLS.			
* PowerShell, IIS AdminPak, ASP, HTML, CSS, XPATH.			
* Development of IIS administration and setup scripts.			
* Programming Active-Directory.			
* Development of XML-manipulating scripts..			

2008-Dec	to	2009-May	Consultant
Software Development Process Improvement, AIS GmbH, Dresden			
Debugging, troubleshooting, analysis of access violations, heap corruption and memory overwrites, multithreading related synchronization and access problems. Performance analysis and optimization on production virtual-machine systems (vmware). Evaluation in the context of C++ and C# of tools for process improvement, coding styles, tools for source code formatting, static analysis and documentation. Presentation and coaching regarding software development process improvement.			
Technology: CDB, WinDbg, Fiddler, WireShark, Network Monitor. ETW – Event Tracing For Windows. Microsoft Visual Studio 2008 performance analysis tools. Intel vTune 3.2 Microsoft Windows Performance Tools (WPT, XPERF, LOGMAN) Microsoft KERNRATE Microsoft Visual Studio.net 2008, C++, C# 3.0, JScript, C++/CLI. Microsoft Office 2007: PowerPoint, Excel, Word, Outlook. Doxygen, Doc-O-Matic, PolyStyle, StyleManager, Sandcastle, Robodoc, Doc-To-Help. Gimpel PC-lint, GrammaTech CodeSonar, Coverity Integrity. Klocwork Insight, Mathworks Polyspace. Microsoft PREfast, FxCop, StyleCop..			

2006-Jul	to	2006-Nov	Consultant
2007-Dec	to	2008-Dec	Consultant
Premier Support, Distributed Services, Microsoft GTSC EMEA DSW			
Communication with customers throughout Europe. Cooperation with some of the best people in the field. Working for banks, insurance companies and software producers. Using latest technologies to solve customer problems. Getting deeply involved in to the Web Services infrastructure. Reading and interpreting standard documents, like W3.ORG & OASIS. Answering strategic questions. Giving design and architectural advice. Solving performance problems. Troubleshooting on a low level. Analyzing dumps and network monitor traces. Stating questions to the product department and cooperating with them. Using advanced debugging tools. Code review and performance analysis.			
Technology: * Windows Communication Foundation (WCF). * Microsoft.NET Web Services, WebService interoperability. * XML, XSD, WSDL, DISCO, Certificates, Kerberos. * SAML, WS-Security, WS-Secure-Conversation, WS-Trust. * Service-Oriented Architecture, SOA. * Visual Studio.net 2005 & 2008, C# 2.0 & 3.0, VB.net, TeamSystem. * DCOM, COM, Enterprise Services. WSE Version 2.0 and 3.0. * Advanced Debugging Utilities: CDB, WinDbg, Fiddler, WireShark, Network Monitor. * Support utilities and information databases. * ASP.NET 1.1 & 2.0, .NET Framework, Remoting, IIS, ISA Server. * Interoperability: VB6, COM, DCOM, DLLs, Plinvoke.			

*This list contains only the recent and relevant projects.
A complete list can be provided on request..*

Education

2007-Sep	CSCW: Computer Supported Cooperative Work University Course Certificate, Prof. Haake, University Hagen
2007-Sep	CSSL: Computer Supported Cooperative Learning University Course Certificate, Prof. Haake, University Hagen
2006-Apr	Microsoft MCSD Title
2006-Apr	Microsoft MCP Certification Designing and Implementing Databases with Microsoft® SQL Server 2000 Enterprise Edition
2006-Feb	Microsoft MCAD Title
2006-Feb	Microsoft MCP Certification Developing XML Web Services and Server Components with Microsoft Visual C# .NET and the Microsoft .NET Framework
2005-Dec	Microsoft MCP Certification Developing and Implementing Web Applications with Microsoft Visual C# .NET and Microsoft Visual Studio .NET
2005-Feb	Microsoft MCP Certification Analyzing Requirements and Defining Microsoft .NET Solution Architectures
2003-Nov	Microsoft MCP Certification Developing and Implementing Windows-based Applications with Microsoft Visual C# .NET and Microsoft Visual Studio .NET.
1988-Aug	Study of "Computer Science and Economics", Karlsruhe "Wirtschaftsinformatik" with a title of "Dipl.-Inf. (FH)."
1982-Jun	Professional education as IHK-certified bank clerk.

References

2011-Dec	From Senior Product Manager, eResearchTechnology GmbH The consultant worked closely with program management and stakeholders. He developed user interface sketches, prototypes and played an important part in the development of the new site user qualification process. One of his mayor tasks was the creation and maintainment of the functional specification with Sparx Enterprise Architect. He worked very precisely and brought new ideas to the process. We are very satisfied with his work and enjoyed working with him. We would gladly work with him again..
2007-Nov	From Projektleiter, MTU Aero Engines GmbH Den Berater Herrn Karl-W. Geitz hatten wir 2007 in der Entwicklung und Programmierung verschiedener Softwareprojekte eingesetzt, die in C# implementiert wurden. Es handelte sich sowohl um Server-Komponenten als auch um graphische Benutzeroberflächen von Clients. Herrn Geitz können wir jederzeit weiter empfehlen, er hat stets sehr schnell und effektiv gearbeitet, die Entwicklungswerkzeuge sehr gut beherrscht und auf Grund seiner Erfahrung und seines Überblicks für alle aufgetretenen Probleme in kurzer Zeit erfolgreich und eigenständig eine Lösung gefunden. Hervor zu heben sind seine .Net- und SQL-Detaillkenntnisse.
2003-Jan	From Team Leader Databases, Siemens AG, Medical Solutions The consultant developed the architecture and detailed specification of a generic test framework. This allows the configuration of tests from software building blocks and their distributed on multiple processes, threads and host computers. The test workflow is being controlled by a configurable XML script. The architecture encourages the segmentation of tests into building blocks and their reuse. The consultant independently developed concepts for tracing, logging and exception handling as well as a generical interface for the creation and integration of the software building blocks. The result of his activities is a complete and integrated product with which we are extraordinarily content. The Consultant integrated himself quickly into the team. The planning of his work packages was very reliable and at any time extremely transparent..
2001-Feb	Projektleiter eines Münchner Bankkonzerns Der Consultant hat mit besonderem persönlichen Einsatz das elektronische Dokumentenverwaltungssystem entworfen, entwickelt und in die Produktion eingeführt. Sehr zufrieden sind wir mit der selbstständig und im Team erbrachten Leistung bezüglich IT-Know-How. Der Consultant hat Schulungen für interne Mitarbeiter durchgeführt, die anschließend die Wartung und Produktionssicherung eigenständig durchführen konnten..

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A complete list can be provided on request..*

Portfolio

Standalone, reusable components and applications

Cobasoft.Log	Encompassing logging and tracing library. Very stable and fast, solid, thread-safe, tested.
LOG Viewer	Viewer for large and huge text files. Console-based. Filtering, searching, sorting, regular expressions, highlighting.
Scanning, OCR & Analysis	Automated system for extracting data from incoming or outgoing PDF documents, like invoices.
Cobasoft Object Model	Multilevel object model for application data management and caching. Support for generic programming, data transfer, ORM, SQL database interface. DTO, BO, BOM, validation. High-speed data access. Able to work with huge data sets with minimal memory footprint. It is a layered system: DTO's for basic data representation and transfer. BO's for bundling the object-related functionality. BOM's for lists of business objects. Pluggable validation. Customizable serialization and database access. Stable, proven, generic.
Cobasoft Generator	Source code generator for the Cobasoft ORM. Creates source code (C#), stored procedures (TSQL), documentation.
Web Application Installer	Customizable target locations, web application settings, database settings. HTTPS and certificates. Create websites and web applications. Set folder and Service rights. Persist and reuse all settings. Test preconditions. Upgrade databases. Modern user interface.
Web Uploader for Large Files	Customizable server connections and credentials. Very user-friendly UI. Support for automated, background action. Pause, resume and restart transmissions. Manage many documents at the same time. Show transfer statistics. Persist and reuse all settings.
Image & Document Database	Modern Web user interface. Very flexible data structure, customizable by customer. Image visualization. Extensible. Versioning.
Viewer for Huge Images	Very quick image display, panning and zooming. Various image formats. Integrated graphical, collaborative annotations. Customizable colors and layout, embeddable.