

## Personal Data

<b>Name</b>	<b>Thomas Kruse</b>
<b>Year Of Birth</b>	1967
<b>IT Experience</b>	Since 1990
<b>Education</b>	Diploma in Computer Science & Economics 1995 (University of Mannheim) Tutor in Corporate Policy (Organization, Human Resources, Management, Planning)
<b>Foreign Languages</b>	English (many years of work in English-speaking teams)
<b>Current Focus</b>	Architecture, design and implementation of middleware architectures based on Java EE and .Net, design and implementation in <b>Java</b> (experience since 2001) and <b>C #</b> (experience since 2005)
<b>Availability</b>	<b>07/02/2012</b> , Rhein-Main-Area
<b>Date</b>	12th of December 2011

## Knowledge

<b>Focus</b>	Architecture, design and implementation of middleware architectures based on Java EE and .Net, design and implementation in <b>Java</b> (experience since 2001) and <b>C #</b> (experience since 2005)
<b>Methods</b>	RUP - OOA/OOD (OMT, UML, Rumbaugh, Coad/Yourdan), SA/SD
<b>Tools</b>	Idea 10.x, Eclipse 4.x, RAD 6.x, JBuilder 7.0, Visual Studio 2005-2010, C#, .Net 2.0-4.0, Visual C++, Borland C++, Delphi 5.0, Together 4.2, (Win-CVS), MKS 7.x / 8.x, RCS, PVCS, Visual Source Safe, jdk 1.2/1.3 /1.4/1.5, Junit, Ant, XML Spy Professional 2004, .NET Framework 2.0/3.5, AquaStudio 4.x, DotNetNuke 4.5.
<b>Standard Software</b>	Microsoft Office 97/2000/XP/2003/2007/2010, Star Office 5.2 / 6.0, OpenOffice 1.0 – 3.2
<b>Databases</b>	Oracle 9i / 10g, Access 2003, Paradox 9.0, MS SQL Server 2005/2008, Informix 7.1, Poet (basic), Dbase, Clipper
<b>Web- application server</b>	Weblogic 6.0, 6.1, 7.0, 7.1, 8.1, 8.3, 8.4, 9.0, IIS5.1, 6.0, 7.0, JBoss 4.x, Tomcat 5.x, Websphere 6.x
<b>Programming Languages</b>	Java, C#, HTML, XML, XSLT
<b>Operating Systems</b>	<b>Windows</b> (XP, Vista, 7), <b>Unix</b> (Linux, Reliant Unix, Sun OS 8)
<b>Special Skills</b>	Many years of experience in the design and implementation of software projects Extensive experience in structuring and analysis of business requirements Design and implementation of software architectures (two-tier, 3 tier) based on JEE Business management training
<b>Soft Skills</b>	Good social skills and good teamwork Strong ability to work independently Strong goal orientation, self-management and discipline Strong communication skills High degree of responsibility and initiative, healthy pragmatism

## Projects

### 07/11 – 12/11 ecoVisor – Finishing of Evaluation Phase, Marketing / Sales Campaigns

**Business** Environmental Protection

**Abstract** Design and development of an application for energy consultants to implement the EnEV 2009 for residential buildings (see below).

Implementation of the customer feedback from the evaluation phase. Planning, preparation and execution of marketing campaigns.

Project size 4-6 persons, project language German, documentation English.

**Task** Team lead, coordination of marketing activities, technical preparation and execution of marketing campaigns

**Tools** Windows XP/Vista/7 (32/64 bit), Visual Studio 2008/2010, Microsoft Net 3.5/4.0, C#, WPF, CryptoLicencing, i18n. German/English/Romanian, multi-market capabilities

### 05/10 – 06/11 Phoenix – Analysis and Development

**Business** Tourism industry

**Abstract** Development of the successor of a travel reservation system for a large German tour operator on the base of modern technologies.

Apart from the use of state-of-the-art architectures such as SOA and RCP the project was focused on the flexibility of business processes and system documentation.

Project size 40-100 persons (team size 15-50 persons), project language German, documentation English.

**Task** Analysis of the existing sales process in close cooperation with the different departments and design of the new system in UML. Presentations, organization and permanent reporting to the Architectural Board.

Planning, set-up and initial team-lead of development team related the "booking" part (about 9 developers) for the first two increments of five.

**Tools** Magic Draw 14.0 und 16.6, Jira, Microsoft Sharepoint, Microsoft Office

### 09/09 – 04/10 ecoVisor – Analysis, Design, Development and Deployment for Evaluation Phase

**Business** Environmental Protection

**Abstract** Design and development of an application for energy consultants to implement the EnEV 2009 for residential buildings. The software is characterized by a very simple handling and allows the user a questionnaire-based assessment, a visual expression of the energy consulting and an energy certificate hand-out directly at the customer.

The entire implementation was done using the Microsoft .Net 3.5/4.0 framework. The interface has been implemented with the Windows Presentation Foundation (WPF). Updates of the underlying XML database and community-wide shared template projects are done automatically when an online connection is available.

Project size 4-6 persons, project language German, documentation English.

**Task** Team-Lead, Design and architectural responsibility, analysis, design and implementation of the application, technical implementation of the specifications of EnEV 2009.

**Tools** Windows XP/Vista/7 (32/64 bit), Visual Studio 2008/2010, Microsoft Net 3.5/4.0, C#, WPF, CryptoLicencing, i18n. German/English/Romanian, multi-market capabilities

## Projects

### 09/07 – 11/09 PCA – Development

**Business** Financial services

**Abstract** Development of a SOA-based web application for optimizing the monetary flow to and from ATMs and involved safes. The primary purpose of PCA is to support the cash cycle in banks. This is done by the management of the physical cash flows to supply ATMs, automated teller safes, etc., for disposal of cash deposit, and for the supply and disposal of systems with closed circulation of money as cash recyclers or store inventories.

The implementation is based on J2EE (J2EE1.4 specification, including its sub-specifications and blueprints) on Websphere 6.x and JBoss 4.x in a service-oriented architecture (SOA). PCA represents only one of several specialized applications that were developed based on a product-line framework.

Project size 20 persons (distributed project with two locations in Germany and China), project language German, documentation English.

**Task** Analysis, design and implementation of technical components in the order and contract management. The particular focus was on the analysis and the subsequent refactoring of performance problems and the support of the QA in the specification of relevant software tests.

**Tools** Windows XP, Linux, Websphere 6.1.2, JBoss 4.1, Oracle 9i/10g, XML, JAVA (1.4.2), SOA, J2EE, EJB, Web services, servlets, MKS, RAD (Eclipse 3.x), Maven, Ant, Jasper Reports, Xalan, JDOM, JUnit, Log4J

### 12/08 – 03/09 Katharsis – Development and Deployment

**Business** Education

**Abstract** Design and implementation of a monthly based invoice management for small and medium private educational institutions with support of DTA direct debit.

The entire implementation is based on the Microsoft .Net 3.5 framework, the GUI has been implemented with the Windows Presentation Foundation (WPF), the database was accessed via the Microsoft Linq framework.

Project size 1 person, project language German.

**Task** Design and architectural responsibility, analysis, design and implementation of the application, deployment.

**Tools** Windows XP/Vista (32/64 Bit), MS-SQL-Server 2008 compact, Visual Studio 2008, Microsoft .Net 3.5, C#, WPF, Linq.

### 08/07 – 09/07 BankCheck – Development and Deployment

**Business** Financial services

**Abstract** Development of a web service for checking account number and bank code number combinations. The web service supports the "Prüfzifferberechnungsmethoden der Deutschen Bundesbank" 00 to C6 (as of 09/2007). The web service is characterized by its high performance in batch mode (0.04 milliseconds per check or 25,000 checks per second). For this purpose a framework was developed that supports the creation of new testing methods very easily.

The implementation is based on ASP.NET 2.0 with Visual Studio 2008 and runs under all versions of IIS. As an additional front-end for demonstration purposes a test form was developed that can be integrated into any websites via iFrame-mechanism. A sample implementation was integrated into the DotNet Nuke Portal of the customer.

Project size 2 persons, project language German

**Task** Technical task overall responsibility, design and architectural responsibility, analysis, design and implementation of the web service.

## Projects

**Tools** Windows XP / Server 2003, IIS 5/6/7, Visual Studio 2008 C #, Web Services, ASP.Net 2.0, XML.

### 01/07 – 07/07 WYVE – Evaluation and Prototype

**Business** IT

**Abstract** Location-independent, web-based speech recognition service (free dictation) with client applications based on it. A C #-based client for voice reception and -analysis (threshold analysis and activity detection) was developed as a prototype. The client was connected via web services (SOAP over HTTP) to the server application.

A framework was developed for the Tomcat-based server, which integrates any 3rd party Speech Recognition Engines and was able to switch between them at run-time. The prototype was evaluating the speech engines Sphinx 4.1 (Java) and Loquendo ASR (C/C++) for speech recognition quality, parallelism and load-stability). The integration of Loquendo was done via a JNA-based Mapper (Java <-> C/C++).

Project size 3 persons, project language German, distributed over three project sites.

**Task** Technical overall responsibility and lead-development, design and architectural responsibility, analysis, design and implementation of the prototype, technical evaluation of the speech engines

**Tools** Windows XP/Linux, Tomcat 5.5.20, Java (1.5) / C# / (C/C++), Sphinx 4.1, Loquendo 7.4.0, Web services, Servlets, Subversion, Idea 6.2, Visual Studio 2005, Microsoft .Net 2.0, JDom, Axis 1.4, JNA, Jfig, log4j.

### 03/07 – 07/07 TOKONAME – Development and Deployment

**Business** IT

**Abstract** Client-server application for centralized, multi-tenant management of bonsai trees and websites for each customer, presenting all of his bonsai trees ("bonsai garden"). Bundling of all those websites in a portal with overview functionality.

Presentation Layer: The bonsai gardens and the portal were using the ASP.NET 2.0 technology from Microsoft and "WebForms" including AJAX.NET 1.0. The administrative client is implemented in C # using "Windows Forms". It uses web services (SOAP over HTTP) for data transfer.

Business Logic Layer: The business logic is implemented via web services (SOAP over HTTP) using ASP.NET 2.0. The web services security implementation "WSE 3.0" is used to secure the web service calls.

Data Access Layer: The business logic layer uses the data services of the data access layer, which is bound via the ADO.NET framework to an MS-SQL Server database.

Project size 2 persons, project language is German, documentation English

**Task** Design and architectural responsibility, technical project management, analysis, design and implementation of the application, deployment.

**Tools** Windows 2003/XP, IIS 5.1 /6.0, MS-SQL-Server 2005, Visual Studio 2005, PLESK 8.x, C#, ASP.Net 2.0, ASP.NET AJAX 1.0, WSE 3.0, log4net.

### 04/06 – 03/07 BRAVO – Prototype and Phase 1

**Business** Tourism industry

**Abstract** Development of a J2EE-based reservation system for the connection of 35,000 clients and the direct connection of individual tour operator systems to offer online search in the current inventory and an on-the-fly availability check. The connected tour operator systems can vary their search criteria (region tree, default values of search criteria) in many areas and with immediate effect. The technical connection is done via an OTA /

## Projects

TORIX interface using web services / SOAP.

Project size 8 persons, project language English.

**Task** Design and architectural responsibility, technical support of project management (coordination and developer support), analysis, design and implementation of the architecture framework and application parts, technical documentation and know-how transfer to the project staff.

**Tools** Windows 2000/XP, Sun OS 8, JBoss 4.01 SP1, XML, Java (1.4.2), J2EE, EJB, Web services, Servlets, WinCVS 2.0, XML Spy Professional 2004, Eclipse 3.x, Idea 4.5, Ant 1.6.2, Axis 1.4, Xalan, JDom, Junit, log4J

### 01/05 – 03/06 LeGo – Integration of LTS into the company portfolio and further development

**Business** Tourism industry

**Abstract** Extension of a J2EE-based reservation system for the connection of 35,000 clients and the integration of 40 tour operator systems. Integration into the company portfolio and extension of the system's overall functionality.

Project size 30 persons, project language English

**Task** Design and architecture co-responsibility, support of technical project management (coordination and support-developers), analysis, design and implementation of the architecture framework and application parts, support for load- and performance tests. Documentation and know-how transfer to the departments.

**Tools** Windows NT 4.0/2000/XP, Sun OS 8, BEA Weblogic Server 8.3, XML, JAVA (1.4.2/ 1.5.4), J2EE, EJB, Web services, Servlets, MKS 8.2, XML Spy Professional 2004, JBuilder 7.0 Professional / Enterprise, Eclipse 3.x, Idea 4.5, Ant 1.5, Xalan, JDom, Junit, log4J

### 07/03 – 12/04 LTS – International Version (German, French)

**Business** Tourism industry

**Abstract** Internationalization and scaling aspects of the basic architecture of a J2EE-based reservation system for the connection of 35,000 clients and the integration of 40 tour operator systems including French tour operators. Extension of the system's overall functionality.

Project size 45 persons, project language English.

**Task** Chief design, technical project management support (developer support and coordination), architectural responsibility, analysis, design and implementation of the architecture framework and application parts.

**Tools** Windows NT 4.0/2000/XP, Sun OS 8, BEA Weblogic Server 8.1, XML, JAVA (JDK 1.3.1, 1.4.0, 1.4.1), J2EE, EJB, Web services, Servlets, MKS 8.2, XML Spy 3.5, JBuilder 7.0 Professional / Enterprise, Eclipse 2.01, Idea 3.4, Ant 1.5, Xalan, JDom, Junit, log4J

## Projects

### 09/02 – 06/03 LTS – German Version

**Business** Tourism industry

**Abstract** Design and implementation of the basic architecture and the application logic of a J2EE-based reservation system for the connection of 35,000 clients and the of 40 tour operator systems.

Project size 25 persons, project language English.

**Task** Chief design, technical project management support (developer support and coordination), architectural responsibility, analysis, design and implementation of the architecture framework and application parts.

**Tools** Windows NT 4.0/2000, Sun OS 8, BEA Weblogic Server 7.1/8.1, Weblogic Workshop, XML, JAVA (JDK 1.3.1, 1.4.0, 1.4.1), J2EE, EJB, Web services, Servlets, MKS 8.2, XML Spy 3.5, JBuilder 7.0 Professional / Enterprise, Eclipse 2.01, Idea 3.0, Ant 1.4 und 1.5, Xalan, JDom, Junit, log4J

### 04/02 – 09/02 LTS – Evaluation, Prototype

**Business** Tourism industry

**Abstract** Evaluation and implementation of the basic architecture of a J2EE-based reservation system for the connection of 35,000 clients and the integration of 40 tour operator systems.

Project size 15 persons, project language English.

**Task** Chief design, technical project management support (developer support and coordination), architectural responsibility, analysis, design and implementation of the architecture framework and application parts.

**Tools** Windows NT 4.0, Sun OS 8, BEA Weblogic Server 6.1 und 7.0, XML, JAVA (JDK 1.3.1 und 1.4), J2EE, EJB, Web services, Servlets, MKS 8.2, XML Spy 3.5, JBuilder 6.0 Professional / Enterprise, Ant 1.4 und 1.5, Xalan, JDom, Junit, log4J

### 06/01 – 03/02 Portevo – Award for the „Application of the Year 2002“

**Business** Tourism industry

**Abstract** Architectural design and implementation of a B2B portal on a J2EE platform for unification of the company's presence. About 14 portal applications and 2000 content pages has been integrated or developed.

Portevo won the award for "Application of the Year 2002" (competition for the best IT project in Germany) of the journal "Computer Woche". From 41 candidates Portevo came in the top 5 finalists (ADAC, Citibank, DHL, Dresdner Bank and Portevo).

Project size 25 persons (distributed development at two locations: Germany - Ireland), project language English.

**Task** Analysis, design and implementation of the portal framework to integrate a new portal application, the overall navigation, content management and import and workflow engine.

**Tools** Windows NT 4.0, Sun OS 8, BEA Weblogic Server 6.0 und 6.1, XML, XSL/T, JAVA (JDK 1.3.0 und 1.3.1), J2EE, EJB, Servlets, (Win-)CVS, XML Spy 3.5, JBuilder 4.0 Professional / Enterprise, Ant 1.2 und 1.3, Cocoon 1.0, Xalan, JDom, Struts, Junit, log4J

## Projects

### 01/01 – 05/01 CANIS

**Business** Logistics

**Abstract** Architecture design and prototype implementation of an intranet call center application based on J2EE.

Project size 10 persons, project language German, documentation German.

**Task** Requirements analysis (OOA), design and architecture (OOD), implementation with J2EE technology, know-how transfer of the results.

**Tools** Windows NT 4.0, BEA Weblogic Server 5.2 und 6.0, XML, JAVA (JDK 1.2 und 1.3), J2EE, EJB, Servlets, JSPs, PVCS, Visual Source Safe, Together 4.2, JBuilder 4.0, Ant, Homesite 4.5

### 05/00 – 09/00 S@M

**Business** Tourism industry

**Abstract** Definition and design of the technical architecture (middleware, legacy system integration platform) of a company in the travel agency industry.

Project size 110 persons, team size 4 persons

**Task** Requirements analysis, evaluation of different middleware designs, architecture design, guidelines responsibility, presentation, planning of follow-up project

**Tools** Windows NT 4.0, BEA Weblogic Enterprise, XML, J2EE, EJB, JAVA, Visual C++ (32)

### 08/98 – 05/00 SAM

**Business** Tourism industry

**Abstract** Client-server OO project in the travel agency industry. Connecting approximately 30,000 clients through the customer's own network (9600 baud). Management of customer-, order- and organization-specific data (customizing).

Project size 70 persons, team size 14 persons

**Task** Responsibility of architecture (chief architect), design, design review, architectural coordination and guidance of three technical sub-projects, analysis, design and implementation responsibility for all technical based services.

**Tools** Windows NT 4.0, Reliant Unix 5.44, Visual C++ (32), CDS++, Informix, OO-Mapper GINA, MKS, CVS, Paradigm+ 3.6

### 08/97 – 07/98 SAM

**Business** Tourism industry

**Abstract** Client-server OO project in the travel agency industry. Connecting approximately 30,000 clients through the customer's own network (9600 baud). Management of customer-, order- and organization-specific data (customizing).

Project size 50 persons, team size 10 persons

**Task** OO design (UML) and implementation of domain model classes for displaying organizational structures and customizing of person- and order data Responsibility for component development, OO design (UML) and realization of a serializing component for transmission of object graphs between client and server.

**Tools** Windows NT, Reliant Unix 5.44, Visual C++ (32), CDS++, Informix, OO-Mapper GINA, MKS, CVS, Paradigm+ 3.6

## Projects

### 06/97 – 08/97 Pareto

- Business** Mechanical Engineering Industry
- Abstract** Application for warranty costs management including Pareto analysis.
- Task** Project responsibility, requirements analysis, design (SA) and implementation of the application, introducing and training of customers.
- Tools** Windows 95, Windows NT, Delphi 2, Paradox, Excel 95

### 04/96 – 11/98 Delos

- Business** Mechanical Engineering Industry
- Abstract** Part list download from SAP R2, part list presentation and management including remote data transfer of the parts to suppliers, automatic version control and differential analysis of BOM versions.
- Task** Project responsibility, requirements analysis, design (SA) and implementation of the application, introducing and training of customers.
- Tools** Windows 3.11, Windows 95/NT 3.5, Delphi 1, Delphi 2, Entire-Connection, SAP R2

### 03/96 – 04/97 HTML-Viewer

- Business** IT
- Abstract** Development of a HTML Viewer library (HTML 2.0) as a cross-platform project (Windows 3.11, Windows 95/NT and OS / 2). Project size 5 persons
- Task** Team lead, OO Analysis, Design and Implementation
- Tools** Windows 3.11, Windows 95/NT, OS/2, Visual C++ (16/32), Ansi C, Delphi 1, Delphi 2, VisualBasic 2.0, MFC, HTML, FTP, HTTP, CGI

### 11/95 – 02/96 Database Layer

- Business** IT
- Abstract** Development of an abstract database layer for accessing ODBC, IDAPI and native database drivers. Project size 3 persons
- Task** Team lead, OO Analysis, Design and Implementation
- Tools** Windows 95/NT, Visual C++ (32), Ansi C, ODBC, SQL, MFC

### 02/95 – 03/09 Katharsis

- Business** Education
- Abstract** Invoice management application for dyslexia schools with accounting and printing, and electronic debit payments (DTAUS), versions 1.0-1.7, 2.0-2.2 and 3.0.
- Task** Project responsibility, requirements analysis, design (SA) and implementation of the application, introducing and training of customers.
- Tools** Windows 3.11, Windows 95/98, Delphi 1, Delphi 2, Delphi 3, Delphi 5, Paradox

## Projects

### 05/94 – 11/94 Erasmus

**Business** IT

**Abstract** Legal software, literature search database for lawyers including “Juris” connection.  
Project size 3 persons.

**Task** Design and implementation of the query engine and database access layer

**Tools** Visual C++ (16), Ansi C, VisualBasic für DOS, VisualBasic für Windows

### 01/90 - 04/94 Diverse Projects

**Abstract** Approximately seven projects, further information on request

**Tools** Btrieve, DbFast für Windows, dBase, Clipper Sommer 85, Herbst 86, Clipper 5.0, Ansi C, Borland C++, GNU C++, Visual C++ (16/32 Bit)