

Profile Arno Gross

SAP and IT consultant, M.Sc. (Diplom-Informatiker)



Personal

Name

Arno Gross

Date of Birth

22 November 1961

Nationality

German

Educational Summary

Diplom-Informatiker (Master of Computer Science)

[University of Saarland](#) (Germany)

Foreign Languages

- English (fluent)
- French (level B1)
- Spanish (basics)
- Bulgarian (basics)

Special Fields

- SAP Business Warehouse/Business Intelligence (BW 3.5 und BI 7.0), certified SAP BW/BI Solution Consultant ([SAP and WBS certificates](#))
- ABAP Objects (ABAP OO), SAP Business Server Pager (SAP BSP), Web Dynpro for Java, Webdynpro for ABAP, SAP Netweaver
- Java and Internet applications
- Content and Document Management Systems (CMS/DMS)
- Portal solutions
- Knowledge Management Systems
- Full text and Imaging Databases
- Import and export interfaces

Profile Summary

Wide range of software development projects in managerial, analysis, design and development roles.

Full software life cycle knowledge and in-depth experience of object oriented, structured analysis and design as well as excellent development and implementation experience.

Rates

Depending on the project/negotiable

IT-Knowledge

Programming languages

ABAP Objects (ABAP OO), ABAP/4, SAP BSP (SAP Business Server Pages), Web Dynpro for Java, Java, Python, C++/C, JavaScript, Active Server Pages (ASP), VBScript, HTML, Perl, SQL, XML/XSL, Pascal, FORTRAN, Cobol, Prolog, Ada

Operating Systems

Windows XP/2000/NT/2000/98, Linux and UNIX (Solaris, HP-UX, AIX), DOS, VMS, BS2000, Tandem

Design Methods

UML, OMT, Yourdon, Booch, Structured Analysis, V-Model

Graphical User Interfaces

Swing/AWT, OSF/Motif, Microsoft Foundation Class

Database Systems

MySQL, PostgreSQL, Oracle (SQL, PL/SQL, SQL-Loader, OCI), Versant (OODB), ZODB (Zope Object Database), BASIS (relational database with powerful full text and thesaurus capabilities), Verity (full text engine), SQL Server, ODBC, JDBC, Informix, Ingres

Case Tools

[ArgoUML/Poseidon](#), Teamwork, StP (OMT), MindManager

Web and Application Server

[Zope](#), Apache, Microsoft IIS, Netscape Enterprise Server

Content Management Systems

[Plone](#)

Other Tools/Techniques

CVS, JBuilder, Eclipse, make, ant, Visual C++, MS InterDev, Visual Source Safe, yacc, lex, gnu tools, CORBA, RMI, Secure Shell (SSH), XML/XSL(T), Samba, [Nagios \(network and service monitoring\)](#), different Unix shells (csh, ksh, Bourne shell) Metadata (Dublin Core)

Professional Experience

More than 20 years work experience in software development (analysis, design and implementation) and IT training.

05/2009 - 05/2010: Sabbatical

Position

Project Manager, Designer/Architect, Construction Manager, Tradesman and "General Dogsbody"

Project

Renovation and extension of a 2-storey house

- Software facilitated building design
- Supervision and hands-on involvement in bricklaying, carpenter work and roofing
- Installation of a wall-based heating system including ventilation exceeding current efficiency standards
- Planning of electrical installation
- Rehabilitation measures of the cladding to increase energy efficiency
- Interior work and design including joining and painting
- Landscape design, Installation of a rainwater system

Software

Sketchup CAD, Excel

03/2009: d.3 Administration with certification

Description

- Search with d.3 explorer, visualization with d.3 view
- Manual data import, Dialog Scanning
- Installation of the d.3 system, Process Manager, d.3 gateway
- Client, archive and server configuration
- Monitoring and Rendition Service

06/2007 - 02/2009: Arcandor AG, Essen

Position

SAP BW/BI consultant and developer

Project

Development and introduction of a document centre (orders, dispatch notifications, invoices). Design and implementation of very flexible reporting solutions concerning the state of a document, reporting of single positions (position amounts, money amounts, failure identification, state history ...), Access to the documents from the SAP archive through dynamic linkage and on the fly generation of PDF documents from EDI data. Integration of the web clients and different queries (BEx Web Analyzer) in the existing portal solution. Training the key users and trouble shooting.

- **Technical and authorisation specification** for different SAP BW applications and web applications
- **Data modelling with UML:** conceptual and physical models, amongst others InfoCubes, external hierarchies, MultiProvider, key figures, characteristics, master data, relational data base models
- **ABAP Objects** (ABAP OO), amongst others dynamic programming with RTTS, routines
- **ETL:** Extraction (amongst others development of function modules with **ABAP** to be used in **generic extractors**), Transformation (amongst others **Start, End** and **expert routines** with **ABAP**, **User Exits** for calculation of key figures and characteristics), Load (amongst others time dependent **external hierarchy structures** from CSV files)
- Dynamic web clients with **ABAP OO** and **SAP BSP** (SAP Business Server Pages), **MVC** architectures
- Implementation of **InfoPackages**
- Query design with **BEx Query Designer**
- Portal integration of the web clients and queries (**BEx Web Analyzer**)
- **Migration** from **SAP BW 3.5** to **SAP BI 7.0**
- Integration EDI Reader for dynamic PDF generation through templates
- Integration SAP archive
- Training of key users

Software

SAP BW/BI 3.5 und 7.0, BEx Query Designer, BEx Analyzer, BEx Web Application Designer, SE80, ABAP Objects (ABAP OO), SAP BSP (SAP Business Server Pages), EDI Reader, Excel

05/2007: Train the Trainer Workshop

Description

- Innovative training methods: Deliver knowledge in a more playful and more creative way
- Motivating beginnings
- Creative methods for group work
- Innovative presentation tools: How to convey results
- Activating workshop tools
- Role and responsibility of the trainer

01/2007 - 04/2007: SAP BW/BI full time intensive training

At WBS Training AG, Stuttgart (certificate and contents: [Consultant mySAP NetWeaver '04 Business Intelligence/Business Warehouse](#)). Training ended with SAP consultant certification.

Description

- SAP NetWeaver
- SAP Analytics & Reporting in Management Accounting
- SAP BW Data Warehousing
- SAP BW Reporting & Analysis
- SAP BW Reporting Management
- SAP BW Extraction
- SAP BW Modelling
- SAP BW Authorization
- SAP BW Business Planning and Simulation

11/2006: Hoppenstedt, Darmstadt

Position

Consultant (short term)

Description

Consultancy for introducing a content management system. Aim is to publish print medium online.

Environment

Software: Zope, Plone, Apache

06/2006: Tengemann, Mülheim

Position

Consultant (short term)

Description

Optimization of web server for a web based ERP system

Environment

Software: Apache, Mercury test runner

06/2006 – 05/2009: HR portal development within an international team (Chinese/German).

Position

Consultant/Developer (part time)

Description

Development of a web based human resource and recruitment portal with international focus.

Environment

Software: Python, BS2000, [Zope](#), [Plone](#)

06/2001 - 05/2006: working as consultant and developer for [eurodata GmbH & Co. KG](#) within different projects and roles.

Position

Consultant/Developer (02/2005-05/2006, fulltime)

Description

Developing a quality assurance environment for a migration project. Visiting a JBoss and J2EE course for advanced Java developers in South Africa. Setting up Nagios for monitoring own server and services.

[Talks at International Plone Conference 2005 Vienna](#)

Environment

Software: Python, BS2000, [Zope](#), [Plone](#), ZEO (Zope Enterprise Objects), Zope Asynchronous Call Manager
Java, J2EE, JBoss

Position

Managing director (04/2001-08/2006, part time)

Description

Establishing an offshore development office in Eastern Europe (Bulgaria).
Recruitment of employees.
Set up of physical and virtual infrastructure.
Training and supervision of employees.

Position

Consultant/Developer (1/2003-10/2004, fulltime)

Description

Introduction, customization and training of a web based helpdesk system for first, second and third level support, including design and training. Integration of user authentication with an existing Oracle customer database.
Introducing a web based monitoring system for hosts, networks, services. ([Nagios](#)). With this system it is possible to observe different resources in a production environment. A script (SQL script, shell script, Perl or Python script) delivers results to the monitoring system. According to the configured lower and upper bounds of a resource the monitoring system notifies a group or a dedicated administrator via email, sms or other messaging system.
Developing different Java applications for external file based interfaces. Encrypted data exchange with health insurance and social insurance companies.
Integration of different Web servers with Apache Proxy using Tomcat Servlet Engine.
Deploying applications with HTTPS protocol and Java Webstart using JNLP.
Interface development between IDEA and ETAX payroll system (<http://www.eurodata.de>, http://www.etl.de/sys/depesche/steuer/depesche_0105_1.html) conform to GDPdU (Grundsätze zum Datenzugriff und zur Prüfbarkeit digitaler Unterlagen).

Environment

Software: [Zope](#), Plone, Python, DTML, JavaScript, Oracle, Coconet KKS-AG, FTAM, Elster, ISDN, Tomcat, Apache, JNLP, Oracle, SQL, PL/SQL

Position

Trainer (7/2002, short time)

Description

Zope training for software developers at [Rudolf Haufe Verlag, Freiburg](#)

Environment

Software: Zope, RDBMS

Position

Arno Gross, Gross IT-Consulting, Tel: +49-173-2819634, Email: arno.gross@brmtec.com

Consultant/Developer (6/2002-12/2002, fulltime)

Description

Web portal (for the before mentioned extranet) development, introduction and customization of the content management system (CMS) [Plone](#), including design and training. This portal is part of a big extranet. Maintaining application help files within CMS, i.e. one source for online search in web portal and generated Java HelpFiles on client side.

Environment

Software: [Zope](#), Plone, [Content Management Framework \(CMF\)](#), Oracle, SQL, PL/SQL, stored procedures

Position

Consultant/Developer (6/2001-6/2002, fulltime)

Description

Developing a Java based payroll system (client/server architecture) for big extranet. Introduction of web based project documentation tools.

Environment

Software: Java, Swing, JBuilder, XML, CVS, make, [Bugzilla \(bug tracking system\)](#), Windows 2000 and Linux, Versant OODMBS, Zope, Wiki Web

Position

Project leader (2/2003-5/2003, part time)

Description

Portal development for [codia Software GmbH](#), including coordination of web designer and portal developer. Portal is bilingual, German and English. Project team spread over different locations in Europe.

Environment

Software: [Zope](#), Plone, [Localizer](#), [TranslationService](#), Linux

5/1999-12/2001: Co-owner [consotec](#), Haren (Ems), Germany

Position

Designer/Developer (7/99-12/1999, ~ 0,5 year, part time)

Description

Replacement of different legacy applications through web applications

Environment

Software: UNIX (Dec Unix), NT Server 4.0, ASP, IIS 4.0, VBScript, BASIS RDBMS, ODBC, ADO, Perl, HTML, MS-Project

Position

Developer (7/99-8/2000, ~ 1 year, part time)

Description

Porting different MFC applications to Java and developing new applications for [Rudolf Haufe Verlag, Freiburg](#)

Environment

Software: JBuilder, Java, XML, XSL, CVS, make, NT, Linux, IIS

Position

Developer (6/2000-3/2001, part time)

Description

Developing a content management system for public sector, [city of Haren \(Ems\)](#) (including CD production)

Environment

Software: Linux, NT Server 4.0, Apache Web Server, IIS 4.0, Zope Application Server, Python, JavaScript, MySQL, SQL

Position

Arno Gross, Gross IT-Consulting, Tel: +49-173-2819634, Email: arno.gross@brmtec.com

page 6 of 10
version: 30 August 2010

System architect/Consultant (9/99-12/2001, part time, during projects)

Description

Developing/maintaining a Knowledge and Content Management System for own company, fully web based (Meta data, Dublin Core compliant)

Environment

Software: Linux, NT Server 4.0, Apache Web Server, IIS 4.0, Java, Python, Zope, Python, Perl

Position

Trainer (5/2001, short-term)

Description

Training developers for Zope application server (2 weeks, [Rudolf Haufe Verlag, Freiburg.](#))

Environment

Software: Zope and different third party components, Python

Position

System manager (short-term, during projects)

Description

Upgrading Solaris and BASIS for Year-2000 compatibility.

Environment

Software: Solaris 2.6, BASIS full text RDBMS, Apache, HTML

Position

Trainer (short-term, during projects)

Description

Workshop for [Deutsche Welle](#), Cologne. Administration and Development of new applications.

Environment

Software: Solaris, BASIS RDBMS, Perl, Apache, HTML

1991-6/1999 [CCI GmbH](#), Meppen, Germany

Position

Project Manager (6/98-6/99, 1 year)

Description

Development of an in-house knowledge management system for supporting project teams with all relevant information. All documents generated during a project are stored in a SQL server 7.0 database completed by a full text engine, all fax documents and emails are also inserted to the system. Every team member has to report his problems - technical or non-technical nature - and solutions to the system.

Environment

Software: NT Server 4.0, ASP, IIS 4.0, VBScript, SQL Server 7.0, Verity Information Server, ODBC, ADO, Perl, HTML, C++, MS Project

Position

System Architect/Project Manager (12/96-12/99, 3 years, including breaks)

Description

Design and implementation of an online monitor database for the German foreign TV and broadcast company ([Deutsche Welle](#), Cologne, Germany). Implemented as pure web application with a powerful full text RDBMS in background. The private part of the application is designed for use within an extranet; the public part is searchable through internet. The goal of the project was to reduce the costs for distribution of printed paper (now no longer needed) and to be always to be on time.

Environment

Software: UNIX (Solaris), BASIS RDBMS (full text database, thesaurus), CGI, Perl, C++, JavaScript, HTML, Apache Web server

Position

System Architect/Project Manager (~ 0, 5 year)

Description

The goal of the project is to make the TV and broadcast program of the above mentioned client available through internet. The complete TV program is maintained by an extranet application. Broadcasting times are converted according to the time zone of the online user. In backend we have a big multimedia database for images, RealAudio, video, office and HTML documents. (Visit: <http://www.dwelle.de/tv> and <http://www.dwelle.de/dpradio>).

Environment

Software: UNIX (Solaris), BASIS RDBMS (full text database, thesaurus), CGI, Perl, C++, JavaScript, HTML, Apache Web server

Position

System Architect/Project Manager (~ 0, 5 year)

Description

Also for client Deutsche Welle: Design and implementation of a hotel and review database. Both applications are fully maintainable and searchable through web. All mentioned applications generate HTML pages on the fly including rendering of office documents. If appropriate, documents can be downloaded in the original format (e.g. Word documents). (See: <http://www.dwelle.de/dw/buchtip> and <http://www.dwelle.de/dw/hotels>)

Environment

Software: see above

Position

System Architect/Project Manager (7/96-1/98, ~ 1,5 years)

Description

Design and development of a 3-tier web application for literature database used in R&D department of big German pharmaceutical company. Currently the application is used within an intranet. Also it is planned to deploy the database application for the international subsidiaries, for physicians and pharmacists.

Environment

Software: UNIX (Dec Unix), NT Server 4.0, ASP, IIS 4.0, VBScript, JavaScript, Java, BASIS RDBMS, ODBC, ADO, Perl, HTML, MS-Project, V-Model

Position

Designer/Developer (5/97-6/98, ~ 1 year, including breaks)

Description

Design and development of different web applications, all accessible through conventional clients and browser:

- biographical database
- bibliography database
- archive database for music and text

Environment

Software: UNIX (Dec Unix, Solaris), BASIS RDBMS, Netscape Enterprise Server, NSAPI, Perl, C++, HTML

Position

Trainer (short-term, during projects) Description -- Different operator trainings for the above applications.

Environment

Software: see above

Position

Presales (short-term, during projects)

Description

Writing different project quotes, discussing proposals with client. Presentation of system solutions to client.

Environment

Software MS Word, PowerPoint, Excel, MS Project

Position

Designer/Developer (~ 2,5 years)

Description

Design and development of a work planning and preparation system on a multiplatform environment. Six team members, main responsibility: graphical user interfaces, configuration management, performance measurement and optimization.

Environment

Software: UNIX (Solaris, HP-UX), Windows NT, C++, ORACLE (OCI, SQL, PL / SQL, SQL-Loader), Motif, MFC, wxWindows, lex, yacc, Sparc Works

Position

Designer/Developer (ca. 0,5 year)

Description

Internationalization of the before mentioned product.

Environment

Software: see above

Position

Consultant/Trainer (~ 0,5 year, including breaks)

Description

Analysis of interfaces for production planning systems, integration and customization of the before mentioned product, user training and telephone support.

Environment

Software: see above, awk, sed

Position

Designer/Developer (~1,5 years)

Description

Developing concepts for software quality assurance and reusability of Software.

Environment

Software: UNIX, C, ADA, lex, yacc, V-Model

8/1990-12/1990: [IXTRA Software GmbH](#), Munich, Germany

Position

Designer/Developer

Description

Design and implementation of verification patterns for dialog systems. We could dramatically reduce the test time by automatic regression tests. The client was a big international [IT manufacturer](#); testing groups were located in Munich and Vienna.

Environment

Software: UNIX, C, Informix

1988-3/1990: Institute of Computer Science ([Prof. Mehlhorn](#), University of Saarland)

Position

Research assistant (part-time)

Description

Tutor for "Parallel Algorithms" and technical user support.

Design, Development and Implementation of an algorithm for optimal channel routing on VLSI chips (diploma thesis).

Environment

Software: UNIX, C

1985-87: [Institute of Romance Languages \(University of Saarland\)](#)

Position

Research assistant (part-time)

Description

Design and implementation of database for French business language. The system is used in educational and scientific area and is based on a large text corpus. Training for students of French language based on the developed database. Team consisted of six members.

Environment

Software: UNIX, Informix, SQL, C

1985-86: [Siemens Munich \(Germany\) and Reading \(England\)](#)

Position

Member of the quality assurance project team (working student)

Description

Design and implementation of verification patterns for automatic testing. Generation of test patterns for LSI chips. Implementation of a communication tool for TCP/IP. Different visits during this time. Duration: six months.

Environment

Software: UNIX, C