

Curriculum Vitae

Immediately available for work in South Africa / International

Personal Details

Name	Gerd Wolfgang Naschenweng
Date of birth	24th June 1971
Nationality	Austrian (EC passport), permanent resident of South Africa
Work permits	European Union, South Africa
Marital Status	Married
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Current location	Consulting in Johannesburg, South Africa
Current engagement	Chief Architect for Branch Banking Technology, First National Bank



Introduction

Gerd W. Naschenweng is a proactive, experienced senior software architect and developer with a track record of delivery quality solutions quickly in the IT- and financial industries. During his 11 years in the IT industry he has had roles in development, systems analysis, and project management using technologies like C, Java / J2EE, XML, MQ Series and CICS Transaction Gateway on a number of large and complex projects.

Gerd holds diplomas in Business Management and Marketing Management from the Damelin Management School (Rosebank, South Africa) as well as in Business Enterprise Studies and Marketing Management from the Institute of Commercial Management (Bournemouth, UK).

He has extensive experience in J2EE technologies ranging from the design and development of complex model-view-controller architectures to the integration of legacy mainframe architectures. He has worked with the latest development tools such as IBM Websphere Application Developer, IBM Visual Age and has performed deployments and load-balancing exercises on IBM Websphere Application Server and IBM HTTP Server.

Gerd has worked extensively in the retail banking and insurance industry providing transaction based solutions with the main focus of web-enabling legacy mainframe applications.

Between December 2000 and May 2003, he worked as a consultant for the German company Maas High Tech Software to implement large-scale web-applications in the financial industry. Thereafter Gerd was involved in various projects (SAP portals in Botswana, government projects in Germany) and currently does consulting work in South Africa. Gerd currently holds the position of a senior J2EE Architect / Chief Architect for the Branch Banking Technology Division of First National Bank.

Gerd enjoys developing and delivering systems but he also relishes the human side and gets the most out of his work when he's interacting closely with project stakeholders to deliver systems that add value and give a return on investment. He has the ability to motivate and manage his team to ensure the best results.

Recent achievements

- Architectural design of future architecture for retail banking branch platform
- Introduction of the complete SDLC (change management, version control, testing, deployment) for a retail banking platform
- Technical lead during the hardware selection process and proof of concept for a € 5 million hardware tender
- Team-lead, performance-measurement and scalability-tests with Mercury LoadRunner for a large EJB government-application.
- Development of insurance reporting system with SAP Portal Development Kit.
- Migration of a Visual Age 4.0 Repository to IBM Websphere Application Developer 5.0.
- Migration and automated deployments from IBM WSAD to IBM Websphere Application Server (4.0 and 5.0).
- Design & Implementation of a data access layer to communicate with the mainframe via CICS Transaction Gateway to invoke legacy CICS Transactions.
- Design & Implementation of a single-signon solution using JSSE and LDAP with the use of RSA SecurID and Kobil SecOVID tokens.
- Design and Development of an Internet application to web-enable an insurance company's legacy mainframe applications.

Publications

- Publication: "Performance & Scalability Testing to evaluate hardware infrastructure"
- Establishment of the Java community & and knowledgebase The Java Foundry.

Professional Memberships

- Practising member of the World Wide Institute of Software Architects (WWISA)

Professional Experience

Jul 2004 - current **Consultant for First National Bank (Branch Banking Technology)**, Johannesburg (South Africa)
Chief Architect – Risk & Governance (Self-Employed / Contractor)

Technologies Used:

- IBM Websphere 5.x (AIX, Linux)
- IBM DB2, Tivoli Directory Services
- Mercury LoadRunner, Quick Test Pro
- Telelogic CM Change, Telelogic ChangeSynergy
- Rational Software Architect, Rational Application Developer
- WebSphere Application Developer 5.x
- Novell SLES (8.x, 9.x), Redhat RHEL (2.x, 3.x), AIX 5.2

Business case:

Initially consulted as a J2EE architect to implement architectural principals in the technology division of Branch Banking. Branch Banking Technology services a branch network consisting of 700 outlets and supports over 14,000 users. During the first engagement the scope of work changed to apply enterprise architecture principles, to streamline the software development life-cycle and to establish an IT strategy to support future business initiatives.

Scope of work:

- Resolved stability and performance issues in the current environment and improved scalability from 50 concurrent users to 1500 users.
- Assisted the infrastructure team in the design and implementation of a fully automated, clustered and fail-over Blade Centre environment.
- Architectural principles for SDLC supporting Risk & Governance
- Prepared and presented several business cases to support the improvement of the SDLC (Change Management, Problem Management, Application- & System Monitoring, Test Management).
- Assisted in the RFI/RFP process to replace the current branch software stack.
- Development of architecture strategy and roadmap to transform branch technology.
- Keyplayer in Risk & Governance to implement policies, guidelines and processes.
- Assisted in the ITIL assessment and provided recommendations.
- Architectural design of system infrastructure and involvement in Linux vs Windows proof-of-concepts.

Mar 2004 – Jun 2004 **Consultant for BG Phoenix GmbH**, Munich (Germany)
Architect, Snr. Developer – Quality Assurance (Self-Employed / Contractor)

Technologies Used:

- IBM WebSphere 4.07 (AIX, Solaris)
- IBM Content Manager (AIX / z/OS), IBM MQ Series Workflow
- DB2, IBM Secureway (LDAP)
- Mercury LoadRunner 7.8
- Eclipse 3.0, ANT, yGuard Obfuscator, jadClipse
- Wily Introscope
- ISIS Papyrus
- AIX, Unix, Shell-scripting

Business case:

BG Phoenix GmbH has developed a J2EE application for different social insurance groups in Germany. Scope of the project to perform system-testing during which the delivery project is evaluated for "production-readiness".

Scope of work:

- Setup and extension of quality assuring activities.
- Performance optimisation and troubleshooting for applications.
- Development and customisation of LoadRunner scripts.
- Utilisation of privately developed "UniversalServer" - a extensible client-server framework to control load tests.
- Performance measurement and profiling using Wily Introscope.
- Performance tuning / problem resolution
- Performance tuning of infrastructure environment (especially MQ Workflow, DB2, IBM Websphere and JVM, Content Manager)
- Analysis of LoadRunner-test results.

Sep 2003 – Feb 2004 **Consultant for BG Phoenix GmbH, Munich (Germany)**
Team leader – Quality Assurance (Self-Employed / Contractor)

Technologies Used:

- IBM WebSphere 4.07 (AIX, Solaris)
- IBM Content Manager, IBM MQ Series Workflow
- DB2
- Mercury LoadRunner 7.8

Business case:

BG Phoenix GmbH has developed a J2EE application for different social insurance groups in Germany. Scope of the project is to support the production readiness project for the company during the hardware-tender process, mediate between the different hardware providers and produce results to facilitate the hardware selection process.

Scope of work:

- Setup and extension of quality assuring activities.
- Performance optimisation and troubleshooting for applications.
- Management and co-ordination of the test-team (7 people).
- Development and customisation of LoadRunner scripts.
- Development of additional LoadRunner functionality to generate even load in test scenarios.
- Analysis of LoadRunner-test results.

Aug 2003 – Sep 2003 **Consultant for Atos KPMG working at CEDA Botswana, Gaborone (Botswana)**
Snr. Developer (Self-Employed / Contractor)

Technologies Used:

- Java: JDK 1.3, J2EE, JSP, JDBC, Servlets
- Apache Tomcat 3.3
- MySQL, Oracle
- ANT
- SAP Portal Development Kit 5.0.5
- Windows 2000 Server

Business case:

The Citizen Entrepreneurial Development Agency (= CEDA) is a government-funded agency to develop the business development in Botswana. The core business of CEDA focuses on the distribution of loans in the commercial-, property-, agricultural- and livestock sectors. The project included a loan-origination and appraisal process which interfaces into SAP and utilises the SAP portal server to present the web-based business application to the end-user.

Scope of work:

- Technical assistance in the last 4 weeks of the implementation phase to implement the appraisal models for commercial-, property- and agricultural loans.
- Design of the database model and generic access beans to store/retrieve business data via JDBC.
- Development of SAP portal-components (DynPage and JSPDynPage).
- Unit- and load-test of the components via JUnit.

Dec 2002 – June 2003 **Vereinigte Haftpflicht Versicherungen**, Hannover (Germany)
Senior J2EE Architect / Developer / Team leader (Self-Employed / Contractor)

Technologies Used:

- Java: JDK 1.3, J2EE, JSP, Servlets, XML
- IBM Websphere Application Developer (WSAD) 4.1, 5.0
- IBM Websphere Application Server 3.5, 4.0, 5.0
- ANT, Tcl, Jacl
- IBM HTTP Server
- IBM CICS Transaction Gateway
- Windows 2000 Server

Business case:

The Internet-application implemented under Visual Age for Java 3.5 and deployed on IBM Websphere Application Server 3.5 needs to be migrated to fully support the J2EE deployment standards. The project includes the migration of libraries and deployment scripts.

Scope of work:

- Technical assistance in migration of the Visual Age repository to IBM Websphere Application Developer 5.0.
- Design of automated J2EE deployment into Websphere Application Server 4.0 via ANT and Tcl and Jacl.
- Technical project management and coaching (managing a team of 5 developers, project-planning, business analysis/design).
- Performance and scalability tests via Mercury Loadrunner.
- Production link: <http://maxnet.vhv.de>

Sep 2002 - Dec 2002 **Versicherungswirtschaftlicher Datendienst Gesellschaft**, Hannover (Germany)
Senior J2EE Architect / Developer / Team leader (Self-Employed / Contractor)

Technologies Used:

- Java: JDK 1.3, J2EE, JSP, Servlets, XML, HTML, JavaScript, LDAP, JSSE, Log4J, JNI, C/C++
- IBM Websphere Application Developer 4.0
- IBM Websphere Application Server 4.0
- IBM HTTP Server
- Windows 2000 Server
- RSA SecurID, Kobil SecOVID
- ANT, Tcl, Jacl

Business case:

A web-portal application should allow multiple insurance companies to share different authentication methods and provide a single-signon for all partner applications. For this project a user is authenticated and authorised via RSA SecurID or Kobil SecOVID and user-information is stored in LDAP.

Scope of work:

- Design and development of a model-view-controller application framework for the company.
- Design and development of a Java Native Interface to communicate with the RSA- and Kobil-Servers for authentication.
- Design and development of a XML-based configurable authentication framework.
- Performance and scalability tests via Mercury Loadrunner.
- Production link: <http://www.vdg-portal.de>.

Mar 2001 - Sep 2002 **Vereinigte Haftpflicht Versicherungen**, Hannover (Germany)
Senior J2EE Architect / Developer / Team leader (Self-Employed / Contractor)

Technologies Used:

- Java: JDK 1.3, J2EE, JSP, Servlets, XML, HTML, JavaScript, Applet, Log4J, JSSE, Log4J, Apache FOP, Xalan, XSLT, JNI, C/C++
- IBM Visual Age for Java 3.5, 4.0
- IBM Websphere Application Server 3.5, 4.0
- IBM HTTP Server
- IBM CICS Transaction Gateway
- Mercury Loadrunner
- Windows NT Server

Business case:

Establish an Internet-portal to provide the insurance companies business processes to their insurance brokers and partners. The portal's functionality covers all aspects of an insurance-brokers requirement (change insurance details, customer details, file damage reports, enquiry of insurance contracts etc.).

Scope of work:

- Design and development of a model-view-controller application framework (XML based "Struts"-like MVC model 2) for the company.
- Design and development of the Java Middletier (servlets, Javabeans, JSP) to communicate with the mainframe via CICS Transaction Gateway to invoke legacy CICS transactions.
- Design and development of a XML-based communication infrastructure to transform COBOL copybooks into XML-beans.
- Design and development of a reporting framework based on Apache FOP to generate / transform PDF-documents and serve the documents via the browser.
- Design and development of a distributed Logging-Framework based on Apache Log4J and IBM MQSeries.
- Load balancing and scalability tests of the application via Mercury Loadrunner.
- Project link: <https://maxnet.vhv.de>

Nov 2000 - Feb 2001 **DBV Winterthur**, Wiesbaden (Germany)
Senior J2EE Architect / Developer (Self-Employed / Contractor)

Technologies Used:

- Java: JDK 1.2, J2EE, JSP, Servlets, XML, Applet, EJB, Corba
- IBM Visual Age for Java 3.5
- Allaire JRun, Tomcat, Iona iPas Application Server
- IBM MQ Series
- Sun Solaris
- Mercury Loadrunner

Business case:

Proof of concept for the development of a web-based document management system. The project focused on the automatic processing of documents (letter, emails, fax etc.) via a web interface. Back-end processes included the archiving of new documents into a document server and retrieval functions to access documents from the optical Jukeboxes.

Scope of work:

- Design and development of a web-based application to retrieve document information from the mainframe via MQ Series and display the documents in a browser.
- Integration of APIs to retrieve documents via a servlet from optical storage.
- Development of a 3270 applet to enable users to capture additional information on in 3270 applications.
- Load tests with Mercury Loadrunner.

Aug 2000 - Nov 2000 **Micro Compact Car Company Smart GmbH**, Renningen (Germany)
Project Manager (Self-Employed / Contractor)

Technologies Used:

- Microsoft Project, Microsoft Office

Business case:

The Smart company (a Daimler-Chrysler company) manufactures and distributes in a franchise model the compact Smart-cars. In a restructuring exercise the company focused on launches into new markets.

Scope of work:

- Project management and coordination of the IT-franchise setup for the new market launches in UK, Japan and Taiwan.
- Setup of change-management procedures to coordinate the distribution of new functionality and updates to franchise outlets.
- Co-ordination and setup of a project office and delegation of tasks to team-leaders / project managers.

Jan 2000 - Jul 2000 **Standard Bank of South Africa**, Johannesburg (South Africa)
Senior System Analyst / Designer / Developer (Self-Employed / Contractor)

Technologies Used:

- Java: JDK 1.1.8, XML
- IBM Visual Age for Java 3.5
- IBM CICS Transaction Gateway, IBM OS/2 Warp 4.0

Business case:

Proof of concept to move the existing branch delivery system to a platform independent format.

Scope of work:

- Analysis, Design and Feasibility study to migrate a large (350+ branches) banking client-server system to Java.
- Development of a Java interface to communicate and exchange data with the mainframe via IBM CICS Transaction Gateway.

Jun 1996 - Jan 2000 **Standard Bank of South Africa**, Johannesburg (South Africa)
Senior System Analyst / Designer / Developer (Self-Employed / Contractor)

Technologies Used:

- C / C++
- IBM OS/2 2.x, 3.x, 4.x
- IBM LAN server / Requestor, IBM Communication Manager (APPC, APPN)
- IBM Universal Database, IO subsystems

Business case:

Enhancing the OS/2 based client-server application to implement additional functionality to increase productivity at the banks branches.

Scope of work:

- Integration of the new Y2K compliant credit-card processing system.
- Management of implementation and rollout of major functional changes to the front-end system to all retail outlets.
- Analysis, Design and Implementation of the Instant Card Issue functionality to issue (print & encode) ATM cards in the branches.
- Management of the deployment of 200 card printers into the branch network (400+ branches). Analysis, Design and Implementation of the Teller System, which allows the banks branches to handle all monetary transactions real-time.
- Analysis, Design and Implementation of the "plug 'n play" Serial Port Interface, which enables the "hot-plugging" of any serial device. (This was implemented to launch new hardware quickly and to reduce administration and configuration efforts). As part of this project cash-dispensers, card-readers, cheque-readers and card-printers were deployed to 400+ branches nationwide.
- Analysis, Design and Implementation of the Print Monitor Interface, which extends / replaces

the functionality of the OS/2 Print Manager. Purpose of the project was to increase the speed of documents printed and to manage 5000+ printers in the branch network.

Sep 1992 - Jun 1996 **Genesis Software Consulting (now Uniquare)**, Krumpendorf (Austria)
Senior Developer / Analyst (Permanent)

Technologies Used:

- C / C++
- IBM OS/2 2.x, 3.x
- APPC, APPN, CPIC
- IO subsystems

Business case:

Analysis and Design of business functionality for the Standard Bank of South Africa project.

Scope of work:

- Analysis, Design and Implementation of the Customer Information System to manage customer information and utilise key data for marketing purposes.
- Cross Selling Interface to support customer consultants in their marketing efforts.
- Development of the support tool "BDRemote/32" to remotely control 800+ servers and 10,000+ desktops in the banks branch infrastructure.

Education and Qualifications

1997 - 1998	Rands Afrikaans University , Johannesburg (South Africa) <i>Diploma in "Java and Internet programming for scientific computing"</i>
1995	Institute of Commercial Management , Bournemouth (United Kingdom) <i>Diploma in "Business Enterprise Studies" and "Marketing Management"</i>
1994 - 1995	Damelin Management School , Rosebank (South Africa) <i>Diploma in "Business Management" and "Marketing Management"</i>
1985 - 1990	Bundeshandelsakademie , Spittal a. d. Drau (Austria) <i>Business Enterprise Studies (matric)</i>

Skills & Technical Experience

Skills are rated on a level from 1 – 5 as described below:

5	Expert	4	Advanced understanding of skill area
3	Thorough understanding of skill area	2	Some experience, good working understanding
1	Limited understanding of skill area, little actual experience		

Industry Knowledge	Skill	Level	Months	Last used
	Financial Industry – Insurance	3	48	Current
	Automotive	2	12	2001
	Financial Industry – Banking	4	102	Current
Operating Systems	Skill	Level	Months	Last used
	Windows Client (NT, 2000, XP)	4	84	Current
	Windows Server (NT, 2000)	4	84	Current
	Linux / Unix variants	4	48	Current
	IBM OS/2 (Version 1.x - 5.x) Client/Server	5	96	2000
System Software, Networks	Skill	Level	Months	Last used
	TCP/IP, Sockets, SMTP, POP, HTTP, FTP	4	36	Current
	IBM CICS Transaction Gateway	4	48	Current
	IBM MQ Series	3	36	Current
	IBM DB/2 & IBM Universal Database	3	36	2000
	SNA/APPC/CPI-C	3	48	2000
	IBM Communication Manager	3	48	2000
	Interprocess Communication (pipes, queues)	4	48	1999
	IBM LAN Server / Requestor 4.x, 5.x	4	48	1999
Java Skills	Skill	Level	Months	Last used
	J2EE - General Knowledge	4	84	Current
	J2EE - JSP	4	72	Current
	J2EE - Servlets	4	72	Current
	J2EE - LDAP	2	24	Current
	J2EE - EJB (basic)	2	6	2001
	Java - Applications / Swing	3	12	2000
Web Technologies	Skill	Level	Months	Last used
	JavaScript	4	24	Current
	HTML	4	36	Current
	XML / XSL	3	36	Current
	SAX / DOM	3	36	Current
	HTTP / HTTPS	4	60	Current
	PHP / Perl	2	6	2000
	SAP Portal Development Kit 5.0.5	3	4	2003
Programming Languages	Skill	Level	Months	Last used
	Java	4	84	Current
	ANT, Tcl / Tk / Jacl (for Websphere Deployments)	2	6	Current
	C / C++	4	96	2000
	Rexx	3	24	1999
Development Environments	Skill	Level	Months	Last used
	Rational Application Developer / Software Architect 6.0	4	12	Current
	IBM Websphere Application Developer 5.0	4	36	Current
	IBM Websphere Application Developer 4.x	3	48	Current
	IBM Visual Age for Java 3.5 / 4.0	4	60	Current
	TogetherSoft Control Centre	3	12	2000
	IBM CSET/2, C/2, Toolkit 1.3, 2.x, 3.x, 4.x	5	96	2000
	IBM Visual Age for C++	4	48	2000
	Watcom C/C++ 10.0	3	24	1999
	Microsoft Visual Studio 6.0	3	6	1998

Application and Web Servers	Skill	Level	Months	Last used
	IBM Websphere Application Server 5.0	4	36	Current
	IBM Websphere Application Server 4.0	3	36	Current
	IBM Websphere Application Server 3.5	3	48	Current
	IBM HTTP Server 1.3.26, 2.0	3	48	Current
	Microsoft Internet Information Server 4.0	2	24	2001
	Apache HTTP Server	3	24	2001
	Allaire JRun	2	12	2000
Database Systems	Apache Tomcat	2	6	2003
	Iona iPAS Application Server	2	6	2000
	Skill	Level	Months	Last used
	MySQL	3	24	Current
Application Software	IBM DB/2, IBM Universal Database	3	48	2000
	ODBC / JDBC	3	12	2003
	Skill	Level	Months	Last used
	Microsoft Office 98/2000/XP	4	96	Current
	ABC Flowcharter	4	60	Current
	Visio Professional	4	60	Current
	Netobjects Fusion	4	48	Current
	Microsoft FrontPage	4	48	Current
	Adobe Acrobat / Distiller	4	24	Current
	Internet Explorer 5.x, 6.x	4	60	Current
	Netscape Navigator, Communicator, Mozilla	3	48	Current
	Microsoft Project	2	24	Current
	Allaire Homesite	3	24	2001
	Corel Draw	3	36	2000
Good working knowledge	Adobe Photoshop	3	36	2000
	Skill	Level	Months	Last used
	CVS (version control)	3	12	Current
	Telelogic CM Change, Change Synergy	3	12	Current
	Shell scripting	3	12	Current
	Mercury Loadrunner	3	12	Current
Other skills	UML (class-/sequence-/usecase-diagrams via EclipseUML)	2	6	Current
	Skill	Level	Months	Last used
	Enterprise Architecture / Architectural Design	4	36	Current
	Analysis / Design	4	96	Current
	Team Leading	4	48	Current
	Project Management	2	24	Current
	Business Analysis	3	60	Current