
Presentation of Qualifications

Berend de Boer

Personal information

DOB	31-Oct-1970
Marital status	Married
Nationality	Dutch
Title	Master of Science in Technical Informatics
ACM and IEEE member	
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Skills

I have over 15 years of professional IT experience ranging from coding to n-tier architecture design. I'm not only interested in the technical side of writing complex software, but also in the software engineering side of it: how to do this with a reliable outcome and how to do it in such a way that a large number of programmers can work together productively.

Software Engineering	Level of experience
AJAX	Strong (including frameworks as jQuery, Ext, YUI, and Prototype)
Build and smoke-testing	Strong
Google Maps	Good
Internet technologies	Strong
.NET Framework	Intermediate
REST architecture	Strong
n-tier architecture	Strong
Peer review	Good
Source code control	Strong

Language	Level of experience
C	Intermediate
C#	Intermediate
CSS	Strong
ColdFusion	Intermediate
Delphi	Very high (I'm Borland Delphi Client/Server Certified engineer), used from Turbo Pascal 3.0 up to Delphi 6.0
Eiffel	Very high (I won a Silver Award at the Eiffel 1999 Struggle and a Gold Award at the Eiffel 2000 Struggle); I organised the International Eiffel Programming Contest 2003 and 2005. Programmers from three different continents have participated in this.
Extended Pascal	Intermediate
JavaScript	Strong
Perl	Intermediate
PHP	Good
Python	Intermediate
SQL	Very high
T _E X/ConT _E Xt	Strong
Unix shell	Good
Xplain	Guru
XHTML/HTML	Very high
XSLT	Very high
Database	Level of experience
DB/2	Intermediate
InterBase/FireBird	Strong
Oracle	Some
PostgreSQL	Strong
Microsoft SQL Server	Very strong (I'm a Microsoft SQL Server Certified Product specialist), from version 6 up to 2005 including the cluster server fail-over edition

mSQL	Some
MySQL 5	Strong (including setting replication scenarios)
SQLite	Intermediate

Protocols	Level of experience
FTP	Good (implemented FTP client)
IMAP	Intermediate (implemented IMAP client)
IRC	Intermediate (implemented IRC client)
HTTP	Strong (implemented HTTP client and server)
LDAP	Some
SMTP	Good (implemented SMTP client)

Operating Systems	Level of experience
GNU/Linux	Good
FreeBSD	Good
Solaris	Some
Windows	Good, from Windows NT 3.5 to Windows 2003 Server

Employment history

- September 2008 – *Automatem Ltd, Auckland*
 Worked for various customers of Automatem on custom PHP, Joomla and Drupal sites. Work involved:
- Optimising websites both from a server and customer perspective by handling much more customers on a server, or dramatically improving the website loading time for customers.
 - Customers included [interest.co.nz](#), [Philips Selecon](#), [Freshco](#), [Sportcheck](#) and [3deals](#).
 - Enhancements to various web applications.
- November 2007 –
 Worked on many Drupal projects:

1. Through Sparks Interactive I worked on [National Business Review](#) (high traffic Drupal web site), [The NZ Retirement Commission](#) (Drupal website with most number of users in NZ) and [Eco Events](#).
2. Converted [Amnesty International NZ](#) site to Drupal. This is one of the sites I host as well.
3. Through [Tribal DDB](#) worked on sites for the Child Cancer Foundation and [McDonalds ili card](#).
4. Developed sites such as [Salesnet Australia](#) and Mobicon Systems.
5. For Thompson Publishing (a \$500 million USD company) I developed the [AHC Media testing site](#) and worked on [Smart HR manager](#).

Work covered all areas of Drupal such as custom modules, payment processing, data integration, Drupal themes.

Non Drupal work was done for online hotel booking site [ezibed.com](#) (hotel information and bookings integration between various partners using OTA XML messages) and [Nayler Recruitment Services, Australia](#) (ColdFusion).

I also was involved in various SugarCRM Pro projects.

Setup various sites and configurations on Amazon's EC2 with automatic backups, master/slave replication and load balancing.

May 2007 –
November
2007

OE.tv, Auckland

Suggested to OE.tv that they rebuild their current website in Drupal as their current website was build with custom PHP code and custom JavaScript.

Was subsequently contracted by OE.tv to do exactly that. The website is a website for travellers where they can upload videos, photos and stories and leave a trail of their travels to friends and family.

The new web site is not yet live (as OE.tv wants to upload 500 new videos to the map first), but the beta site is available on request. The website employs many Drupal modules, and a small dozen modules were specially written such as a notifications and friends module. There is close integration with Google Maps (through the Mapstraction library). Other responsibilities were setting up the source code repository (svn) and issue tracking system (TRAC) and interviews with prospective employees.

Dec 2006 –
Oct 2007

PlayAll, Germany

Build a game server scheduler for PlayAll. Given constraints of available servers, expected load and maintenance times and of course the number

of players and the online games they want to play, the server schedules the game on a physical resource. The game is automatically rescheduled to a different resource of the scheduled resource experiences an outage. The scheduler is written in Kylix 3 and Delphi 2006 and deployed on both Windows and GNU/Linux servers.

Also build a system that gives instant awards to players based on events in the game. Examples are shooting two people in a row, or disarming a bomb.

- Apr 2006 –
Aug 2007 *Web development for **Freedom Technologies**, Ontario, Canada*
Freedom Technologies is a company that sells top quality, highly configurable servers and ships them world-wide.
Key accomplishments:
- Using their product and configuration database I came up with a unique configuration tool that lets customers easily configure a server.
 - Customers receive instant pricing for the configuration in any currency they like.
 - FedEx shipping quote integration: customers receive instant shipping costs for their selected configuration.
 - The new system uses Eiffel (CGI), HTML, XSLT, XML and JavaScript.
- Apr 2004 –
Nov 2006 *Software Engineer at **XSOL Ltd.**, Auckland, New Zealand*
XSOL is a company developing solutions in the Business Process Management System space. XSOL was in the top 3 of fastest growing IT companies in New Zealand according to the Deloitte/Unlimited 2005 index.
Key accomplishments:
- Worked on rewriting parts of XSOL Automation into Microsoft .NET 2 using C# and using HTML as front-end. Back-end was Microsoft SQL Server 2005.
 - Worked on various parts of XSOL Automation, XSOL's product for running a business that has been designed by XSOL Mapping. XSOL Automation was originally developed in Delphi 6. I developed entirely new parts such as support for accumulators, and on smaller parts such as integration with Active Directory and Microsoft Office 2003 products.
- Apr 2002 –
Apr 2004 *Software Engineer at **XSOL Ltd.**, Auckland, New Zealand*
Key accomplishments:
- Implemented XSOL Integration, a system that integrate different data sources by keeping them in sync. It captures modifications made in one system and through a dependency network updates other

systems. The system was designed and written in conjunction with Auckland University. Project leader was John Grundy, professor of Software Engineering.

- XSOL Integration is written in ISE Eiffel 5.6 and is database independent. It uses Microsoft Message Queue for sending SOAP messages between subsystems.
- XSOL Integration is XML based. Data sources are assumed to be XML document and through XSLT data sources can be transformed into any other format. XML was stored in a relational database (Microsoft SQL Server 2000); Designed the structure to store XML in a relational database.
- User interface is completely HTML based and uses the Ajax approach at various stages to achieve a richer UI.
- XSOL Integration also supports SQL Server fail-over clustering.

Apr 2004 – Started a new company, Xplain Technologies Ltd.

Feb 2004 – *Program conversion for **Priva B.V.**, De Lier, The Netherlands*

July 2006 Priva is the word market leader in process automation for indoor horticulture. I worked for them as an independent contract on a fixed price contract.

Key accomplishments:

- Translated several key Paradox based products to InterBase 6. These programs were written in Delphi 6.
- This included translating the database from a Paradox schema to an InterBase schema.

May 2001 – *Software Engineer at **Ortec Taxion**, Gouda*

Mar 2002 Adapted Ortec's system for international transport to individual public transport.

Oct 1999 – *Software Engineer at **Ortec International BV**, Gouda*

May 2001 Worked for Ortec International, a 200 person company. Ortec creates products and services around Operations Research knowledge.

Key accomplishments:

- Worked for the Ortec Systems department that creates software for international transport. The software is targeted at large companies with 3 or more concurrent planners and 50 or more trucks.
- Redesigned and rearchitected the planning input part of their solutions for (international) transport. This included design of a 3-tier technical architecture, and design of the data model using Xplain technology (see list of publications).

- Implemented key parts of this architecture with Delphi 5, Microsoft Transaction Server and Microsoft SQL Server 7.0.
- Managed a varying number of people who worked on this part. This included explaining n-tier architecture and creating detailed designs.
- XML is used to communicate between subsystems and software from other vendors. Written various DTDs and XML Schema's to specify these XML messages.
- Wrote the design and implementation for the data warehouse that is part of this system.
- Initiated search and proposed a new source code control system (Perforce). Implemented transition and trained people. This system is currently only in use at Ortec Systems BV, but it is expected that deployment will be company wide.

Apr 1998 – *Technical architect at Kwetters Automatisering BV, Veenendaal, The Netherlands*
Sep 1999

Kwetters develops software for wholesale traders in the food. Kwetters is developing a new system, based on n-tier architecture principles, to replace a DOS based system. Cost of development was approximately USD 1,000,000. I was responsible for the software process used to develop the system and the architecture of the system itself.

Key accomplishments:

- Technical design of Kwetters new n-tier system. Design of database, business objects and database queries. The system is database independent. It is developed using Visual Basic 6, Microsoft SQL Server 7.0 and Microsoft Transaction Server. It consists of over 200 tables and over 100 business objects.
- Managing a team of 4 programmers and 1 trainee.
- Setting up a defined software process using the Capability Maturity Model.
- Introduced peer reviews, both design and code reviews.
- Introduced source code control (Visual Source Safe).
- Introduced prototyping as a tool to communicate with customers and developers.
- Setting up a software process measurement program. Most important question was to measure how long it did take to develop a business object and to create a design.
- Creating functional requirements specifications, together with customers of Kwetters.

- Developed a prototype web based application to show how wholesale traders could use the Internet for business-to-business communication with their clients. This at a time when there was discussion to use a file transfer based application. This eye-opened Kwetters senior management for the Internet as a business-to-business sales channel. It convinced them to start developing an Internet Front Office application.
- Talked to and reviewed ISP's wishing to host this Front Office applications.
- Written strategic documents for Kwetters senior management outlining how the Internet will change the wholesale food business and what things Kwetters could do to play a role in this.
- Tasked with interviewing candidates applying for positions at Kwetters software department.

Dec 1998 – *FunderingsTechniek Noord, Tolbert, The Netherlands*

Jul 1999 Key accomplishments:

- Written a four module application for FunderingsTechniek Noord: customer- and contact management, project management, calculation of offers, and management information.
- The application is written with Delphi 4.0, using InterBase running on Unix (FreeBSD).

Mar 1998 – *British Petrol (BP), Sassenheim, The Netherlands*

Apr 1998 For a department of BP, I finished a fleet-management-application-development-tool.

Key accomplishments:

- With this program a user can easily build and customise a fleet management program. You can also adapt the database.
- Coupled with phone (TAPI).
- Written in Delphi 3.0, database Paradox.

Nov 1997 *Intergraph, Hoofddorp, The Netherlands*

Provided the official Microsoft SQL Server courses 'System Administration' and 'Database Design' at Intergraph, Hoofddorp, The Netherlands.

May 1996 – *Technical manager at [ASC Software Technologies](#), Amsterdam, The Netherlands*

Mar 1998 ASC writes vertical market software, almost always using their standard customer and contact management kernel.

Key accomplishments:

- Responsible for the technical design and implementation of many projects and had an advisory role in all others.
- Designed and developed version 3 of this kernel for SQL Server and Delphi, using form inheritance, custom components and advanced SQL Coding. A new custom contact management system now takes only 3 hours!
- My main project was the design and development of an administrative system for the largest flat-fish auction in Europe. It used the contact management system as its base, extended with the ability to store objects of type 'Ship'. Especially challenging where the complex cost calculation pieces.
- Worked on two different data-warehousing projects (for Urk Fish Auction and Cytec Industries in Rotterdam). Urk Fish Auction used Cognos/PowerPlay, Cytec Industries used a combination of reports written with QuickReport and web-based reports. For Cytec Industries, data came from a heavily customized BPCS application running on an AS/400.
- Tasked with interviewing candidates applying for positions as programmer.

Dec 1996 –
2002

Wiertsema & Partners, *Tolbert*

Key accomplishments:

- Developed a customer and project management system. Written in Delphi 3, database Paradox.
- Responsible for running their NT and Unix servers.
- Advising them about infrastructure issues.

Dec 1994–
May 1996

Manager BackOffice systems at NRS, Zaltbommel, The Netherlands

NRS develops and sells POS (Point-Of-Sale) and BackOffice software for supermarkets and other retail branches.

Key accomplishments:

- Designed and wrote the most important parts of a loyalty card system (like Airmiles). The system consisted of a fully distributed and replicated database (with logging and auditing), custom developed as it had to run on DOS. Synchronising the database occurred at night using an ISDN WAN or modem lines.
- Introduced source code control (RCS).

May 1994 –

Started my own company, NederWare. Since march 1996 until 2002 every position I have hold has been as a contractor.

Education

Technical University Delft, The Netherlands

Master of Science in Technical Informatics (1989–1994).

Van Lodenstein College

Secondary education (VWO) at Van Lodenstein College, Amersfoort, The Netherlands (completed in 1989)

Publications

- Article “*Converting Delphi Forms to XML and Back*”, published in The Delphi Magazine, June 2006.
- Article that proves that **REST based web architectures can use pure HTTP authentication** and support all login and logout use cases.
- Paper about conversion of ConT_EXt code to HTML, published in Free Software Magazine, issue 2.
- Article “*Generating XML*”, published in The Delphi Magazine, January 2002.
- Gave two tutorials at **euroT_EX 2001**. The first was about XSLT, the second about Makefiles.
- Presented a paper about conversion of ConT_EXt code to HTML at **euroT_EX 2001**.
- Presented a paper about converting Xplain to SQL at **IASTED 2001**, Innsbrück. This paper publishes joint research of Delft University of Technology and NederWare, February 2001.
- Started column about pdfT_EX and ConT_EXt in the MAPS, the publication of the dutch T_EX user group, 2000.
- Article “*ConT_EXt for L^AT_EX users*” in MAPS (magazine of the dutch T_EX users group), Spring 2000.
- Speaker at Inprise Developers Conference July 1999 in Philadelphia, USA. I presented two sessions. The first session discussed using and extending Outlook from Delphi applications. The second session discussed writing MS SQL Server stored procedures in Delphi.
- Article “*Integrating with Outlook*” about integration of Outlook and Delphi, published in The Delphi Magazine, September 1998.
- Article “*MS SQL Server Extended Stored Procedures with Delphi*”, published in The Delphi Magazine, March 1998.
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