Personal Information

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Title	Drs. (M. Sc.)		Netherlands
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Nationality	Dutch		

Experience

6/2000 – present   IBM   IT Architect

2/2001 – present — *International Technical Support Organization – ITSO*

Special assignment on behalf of the ITSO for IBM Learning Services, to create courseware as a Subject Matter Expert on the WebSphere Commerce family of products. Among the deliverables produced were:

- 4 courses on the use of WebSphere Commerce Suite Accelerator, Pro 5.1 (end-user courses).
- Updating of programming exercises on a course of WebSphere Commerce Suite, Marketplace Edition, version 4.2 (programmer course),
- Updating a course on Basic Store Programming for WebSphere Commerce, Business Edition (programmer course)

Courseware developer for WebSphere Commerce products

Products used:

- WebSphere Commerce Suite, Pro Edition, versions 4.1 and 5.1
- WebSphere Commerce Suite, MarketPlace Edition, version 4.1
- WebSphere Commerce, Business Edition, version 5.1
- Visual Age for Java, Enterprise Edition, version 3.02 and 3.5
- WebSphere Application Server, Advanced Edition, versions 3.02 and 3.5
- DB2 UDB, versions 6.1 and 7.1
- IBM HTTP Server, version 1.3.20
- Adobe FrameMaker, version 6
- Adobe Acrobat, version 4
- Lotus Freelance Graphics

Operating Systems used:

- AIX 4.x (RS6000)
- Linux (RedHat, Suse, Debian) (Intel x86)
- Windows 2000 (Intel x86)
- Windows NT (Intel x86)

9/2000 – 1/2001	*e-Business Solutions*	*IT Architect, pre-sales consultant*

Member of a small pre-sales task force. Together with another IT Architect responsible for the technical aspects of presales work; my job focused on application architecture, his job on network and hardware-related infrastructure. My primary focus was on WebSphere Commerce Suite. During this period, my work consisted of:

- giving presentations to webintegrators about the WebSphere philosophy of IBM, with specific focus on WebSphere Commerce Suite.

- participating in workshops, for example for Market4Care.

- writing architectural proposals for WebSphere Commerce Suite, for example for Swets and Blackwell.

- technical projectleadership for the implementation of 'Samplecentre.com' for Interface, carpettile manufacturer.

- product demonstration of WebSphere Commerce Suite for Linux at LinuxExpo, Amsterdam

Products used:

- WebSphere Commerce Suite, Start Edition 4.1 for Linux

6/2000 – 8/2000	*e-Business*	*IT Architect*

In this period, I have participated in a number of projects:

- One project focused on the use of e-BX, a bill consolidator, written by an IBM partner, by a Dutch startup.

- Another project involved the rollout of IBM research software at the Dutch insurance service provider, ABP.

| 11/1998 – 5/2000 | NOB | System Engineer |

TMF Cyberchoice

Projectleader, IT Architect, C++ Programmer, Technical Support

TMF Cyberchoice is an interactive, stand-alone video playout system. It follows a certain format of clips rotation, that can be influenced by an external telephone system and/or internet. By voting either by phone or through a web interface, viewers can influence the order of play. The videoitem that receives the most votes, will be played, if certain conditions are fulfilled. These conditions can include the amount of time that has elapsed since it was last played, or whether a clip by the same artist was played. My job was designing the system, building parts of the system in C++, system testing, function as the intermediate between the NOB and TMF, and provide technical support for the system.

Products used:

- Microsoft Visual C++, version 6
- Microsoft Visual SourceSafe, version 6
- MSDN Universal Subscription
- Windows (Direct)Media Toolkit, version 6
- Real Networks Player and Toolkit
- SonicFoundry SoundForge
- IBM VideoCharger
- SGI MediaBase
- Various in-house MPEG-2 toolkits and utilities
- ImageMagick
- PBM+ utilities

MPEG-2 Projects

As part of the 'Innovation' team I was also responsible for the maintenance and rewrite of the Pantheon system – an in-house developed system to automate the encoding of public broadcasting stations to MPEG-1 and MPEG-2 and its subsequent transcoding to other formats, such as Windows Media and Real Video. I designed a new C++ framework that would handle the various metadata that floated around in the system, as well as writing a number of utilities and libraries that would accomplish the various tasks.

Operating Systems used:

- SGI IrixOs (SGI workstation)
- Linux (Intel x86)
- AIX (RS-6000)
- Windows NT 4.0 (Intel x86)
- Windows 3.1, 95, 98, NT 4.0 (Intel x86)

| 8/1996 – 11/1998 | AND International Publishers | Senior Software Engineer |

9/1997 – 11/1998 *Travel and Transport*

During my work period for the Travel and Transport unit, I have maintained the MapLibrary, a C++ library that was used throughout the department in various routeplanning software. I also developed and maintained the MapControl, an ActiveX control that allowed for easy inclusion of the MapLibrary functionality in AND software. Next to the actual software development, I also produced several version control and cleanroom testing and building procedures for the libraries and ActiveX controls written by me as well as others.

Products used:

- Microsoft Visual C++
- Microsoft Visual SourceSafe
- Unix utilities (make, awk, sed, vi etc.)

Operating Systems used:

- AIX 4.x (RS-6000 SP)
- Linux (Intel x86)
- Windows NT 4.0 (Intel x86)

8/1996 – 8/1997 *Operations Research*

During my work for the Operations Research unit I have contributed to the development of several libraries, ranging from multi-modality routeplanning (a routeplanning engine that allows you to use several means of transportation when going from A to B) to GUIs that were to be used within the various planning packages. I also developed some courseware that demonstrated the concepts of linear programming.

| 3/1994 – 7/1996 | SPC/Vision | Senior Software Engineer |

SPC/Vision was a company that concerned itself with the production of multi-media titles on CD-i and CD-ROM. CD-i was a set-top machine that ran the OS9 operating system and was one of the first set-top machines of its era. I have worked on the following projects during my SPC period:

Encyclopedia Engine

The Encyclopedia Engine was produced for Philips Media, who needed a smash hit for the Dutch market to promote their CD-i product. I developed an encyclopedia engine from scratch that could produce automated parsers for (S)GML formatted source material. Those parsers would then produce output that would be linked against a dictionary and a list of parsed items, also making use of stemming techniques for the language used. For the source material used to test the engine, there were 1.5 million hyperlinks, on 50 megabyte of raw text data. Only 5 % of the words and phrases were not hyperlinked, consisting mostly of Greek and Eastern European phrases, that were referenced in the dictionary.

Image Libraries

The CD-i environment used a number of image formats not normally found in graphical tools like Adobe's Photoshop. I therefore developed a number of image conversion and processing libraries, that would read and write Photoshop files (including layers and paths) and produce the correct outputfiles.

Automated GUI generator

The CD-i environment did not come with a built-in GUI system. The libraries that were available were slow and used too much memory. I developed a menu system that would allow the work of the graphical artist to drive most of the GUI. This also took care of the programmer having to determine coordinates of items on the screen: the graphical artist provided that information as part of his work. The menu generator would then include that information as part of the build process and the programmer only needed to program the actions.

HTML/HTTP parser

One of the final projects I worked was one of the first HTML browsers to work on a set-top box. This was in 1994, when the web was still in its infancy.

Products used:

- Microsoft Visual C++
- MSDN Subscription
- In-house utilities and libraries
- GNU C++

Operating systems used:

- Windows 3.0, 3.1x, 95
- Windows NT 3.51, 4.0
- Linux 1.3
- OS9

8/1992 – 12/1993	EEC CoViRa/Academic Hospital, Utrecht	Scientific Researcher

The CoViRa project was part of the 'Advanced Informatics in Medicine' program of the European Community. The project dealt with all kinds of aspects of medical imaging, and I concerned myself with volume visualisation in medical imaging. During my work, I developed several GUI related software for display of 24-bit RGB-images on any kind of X terminal (including monochrome and palette based), as well as a movieplayer for generated images. I also developed a generic STL-like library for use within the consortium.

Products used:

- Various C++ compilers
- Standard Unix utilities

Operating Systems used:

- HP-UX 6.x - 9.x (9000 series)
- SunOS 4.1.x (Sun Sparc)
- SysV/R3 (Tektronix 88000)
- Linux

11/1989 – 3/1990, 11/1990 – 4/1991	PTOC	DOS/Windows 3.0 Programmer

During this period I worked for a small firm for the writing of two educational programs for the Postbank. One was DOS-based, the other was one of the first educational programs available for Windows 3.0 in the Netherlands.

Product used:

- Microsoft Visual C, 3.0

Operating System used:

- Microsoft Windows, 3.0

9/1988 – 5/1992	University of Utrecht	Student Assistant

From my second year onwards I have been employed by the university as a student assistant, helping out professors and teachers in various courses dealing with data-structure design and parser construction.

Education

9/1987 – 2/1994	Study of Computer Science at the University of Utrecht. My specialisation was algorithms, especially distributed and parallel algorithms. My graduation project dealt with object-oriented user-interfaces.

Other technical experience

Programming Languages

I am an experienced programmer in a number of languages, including C and C++, Pascal and assembly language of the Motorola 6502/6510 and 680x0 chips.

I am familiar with the concepts, syntax and semantics of ADA, FORTRAN (77 and 90) and derivates, Algol-60 and Algol-68 and derivates, Simula, Objective-C, Smalltalk

and other object oriented languages, as well as formal languages, like Miranda and Hope.

Operating Systems

I have used and am familiar with most flavors of Unix, various kinds of MS-DOS on 80x86 based systems ('PC's), AmigaOS as found on the Commodore Amiga, TOS as found on the Atari ST and MacOS as found on the Macintosh.

I am actively using and maintaining my own UNIX system at home, currently a Pentium III system running (Debian) Linux. I have been using Linux since its infancy, my first kernel-version was 0.12.1. I have been using Debian after its Debian 1.1 release.

Windowing Systems

I have written programs for a number of windowing systems such as Microsoft Windows 3.x, Windows '95 and Windows NT, the X Window System, (including the OSF/Motif toolkit, versions 1.1, 1.2 and 2.0) and Commodore Amiga's 'Intuition'.

Other activities

2000	Wrote two chapters for the book 'Professional Linux Programming', published by Wrox Press. Also reviewed most of this book. The two chapters were on the subject of Multimedia and Linux, and the writing of Documentation for different audiences.	Author, Reviewer
1991 – present	Maintenance, rewrite and enhancements of Motif++, a C++ encapsulation library of the Open Software Group's Widget library for the X11 Windows system.	
1993 – 1994	Wrote a series of articles on the X11 Window System and Motif in C++ Report, a SIGS publication. Also wrote an article on the use of C++ in Multimedia projects.	Author
1992	Wrote an article on Motif++ in the X Journal	Author
1991	Wrote a tutorial on the use of IRC (Internet Relay Chat). Also contributed code to the ircII client and participated in protocol discussions.	Author
6–9/1989, 6–9/1990	Camp Discovery, Hanover, Virginia, United States of America	Camp Counsellor, Computer Director