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# Robert Hellwig's Portfolio

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## Abstract

... an independent Java and Unix oriented IT company with almost a decade of international consulting experience

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## Projects

### E-ID internet strategies B.V., Vianen, NL

**Customer:** E-ID internet strategies B.V., Vianen, NL  
**Duration:** Aug. 2014 - Nov 2014  
**Position:** Iterim Senior Consultant  
**Development Activities:** Java, Spring, Javascript, JSP's, Maven  
**Databases:** DB2  
**Responsibilities:**

- Assisting in finish the next release of their insurance product.

## Rabobank, Utrecht/Zeist, NL

**Customer:** Rabobank, Utrecht/Zeist, NL  
**Duration:** Mar. 2014 - May 2014  
**Position:** Senior Consultant, SCRUM Member  
**Development Activities:** Java, Spring, Javascript, JSP's, Maven  
**Databases:** DB2  
**Responsibilities:**

- Porting of the online customer banking application from IBM's Copybook/Mainframe architecture to a Java/Spring based web application. All needed back-end calls (for example authentication, money transfers, etc, etc) are web-service based.

## SURFnet, Utrecht, NL

**Customer:** SURFnet, Utrecht, NL  
**Duration:** Aug. 2010 - Dec 2013  
**Position:** Senior Consultant, SCRUM/XP Member  
**Development Activities:** Java, Spring, Optical networks, Dynamic Light Paths  
**Databases:** MySQL  
**Responsibilities:**

- Improving and modernizing Nortle's/Ciena's Dynamic Resource Allocation Controller (DRAC) software, which is currently used for setting up Dynamic Light Paths (e.g. very fast optical network connections) between various Research and Governmental laboratories like CERN and UvA for example.
- Forking of DRAC into an open-source edition called OpenDRAC supported and hosted by SURFnet (<https://www.opendrac.org/>).
- Creating the necessary open-source community around OpenDRAC.
- Defining and creating processes and other support structures needed by the OpenDRAC community.
- Administrator of the development, test and production platform.

## Innovation District, Woerden, NL

**Customer:** Innovation District, Woerden, NL  
**Duration:** Nov 2011 - May 2012  
**Position:** Senior Consultant, SCRUM/XP Member  
**Environment:** JEE, Spring, MySQL, DB2, OAuth, Ping Identity  
**Responsibilities:**

- Developing a generic software product that facilitates in the easy integration of different Service Providers (SP's) with a wide variety of Identity Providers (IDP's). The SP's REST services are also protected using OAuth2.
- Setting up the codebase for the initial project in Java and Spring with Ping Identity.
- Setting up the build and continues (automated) deployment processes using a combination of Maven, Hudson and Artifactory.

## IAK, Eindhoven, NL and IDIT, Tel Aviv, IL

**Customer:** IAK, Eindhoven, NL and IDIT, Tel Aviv, IL  
**Duration:** May. 2010 - Jun. 2010  
**Position:** Senior Consultant, Performance Analyst  
**Development Activities:** JEE, Weblogic 9, Performance and process tuning  
**Databases:** MS SQL Server  
**Responsibilities:**

- Identifying IAK's current performance bottlenecks in their IDIT insurance application implementation using Apache's JMeter and HP's Loadrunner. Wrote and tuned the necessary performance scripts.
- Defining a short term plan based on scaling hardware to get rid of the most urgent performance and stability problems.
- Defining a long term plan to structural improve the applications stability and performance issues.
- Defining new process to aid IAK in archiving the necessary long term application improvements (deployment and release processes, bug reporting and followup processes).

## Scarlet / Belgacom, Zaventem, BE

**Customer:** Scarlet / Belgacom, Zaventem, BE  
**Duration:** Mar. 2009 - May 2010  
**Position:** Senior Developer  
**Development Activities:** EAI, IPTV, Java, Unix, VOIP, Spring  
**Databases:** Oracle  
**Responsibilities:**

- Introduced Scarlet ONE to the Belgium market.
- Integrated a great variety of systems between Belgacom and Scarlet (and of course Scarlet itself) to get the complete order workflow going and feeding back the processed information to Scarlet's local storage and Belgacom's Datawarehouse.
- Designed and implemented a new Operational Support System and Business Support System (OSS/BSS).
- Created a robust web framework based on Spring and JSTL to facilitate rapid development of new Customer Care functionality.
- Implemented a robust and repeatable build and deployment process based on Maven, Artifactory and a single Unix command (wget).
- Installed, configured and administrated the chosen middleware on dev, test and production.
- Member of the Belgacom/Scarlet Availability Check workgroup.

## C. Steinweg Handelsveem B.V., Rotterdam, NL

**Customer:** C. Steinweg Handelsveem B.V., Rotterdam, NL  
**Duration:** Sept. 2008 - Dec. 2008  
**Position:** Senior Java Developer  
**Hardware:** X86  
**Development Activities:** Java, Spring  
**Databases:** Informix/IDS 11.50, MySQL  
**Responsibilities:**

- Porting legacy Powerbuilder/4GL applications and processes to a more modern platform based on J(2)EE Web technologies, SOA and Spring.
- Implemented lot's of small and compact Spring based web applications used for automating various back office tasks (ex: lightweight incident management system).
- Coaching and mentoring.

## Bol.com, Nieuwegein, NL

**Customer:** Bol.com, Nieuwegein, NL  
**Duration:** Jun. 2007 - Jun. 2008

**Position:** Senior Java Developer

**Hardware:** X86

**Development Activities:** ATG2007.1, Java, Oracle DB, Oracle AQ

**Databases:** Oracle

**Responsibilities:**

- Porting Netherlands biggest e-commerce site to ATG2007.1.

## NCCW, Almere-Haven, NL

**Customer:** NCCW, Almere-Haven, NL

**Duration:** Feb 2007 - May 2007

**Position:** Senior Consultant

**Hardware:** HP, x86

**Development Activities:** Ant, Linux, Shell Scripting

**Databases:** Oracle

**Responsibilities:**

- Developed and bug fixed various Ant and shell script based frameworks for deploying complete Oracle Application Server instances or various J2EE applications to one or many servers in an automated and controlled fashion.

## Bol.com, Nieuwegein, NL

**Customer:** Bol.com, Nieuwegein, NL

**Duration:** Oct 2006 - Mar 2007

**Position:** Senior Consultant

**Hardware:** X86

**Development Activities:** Java, Oracle DB, Oracle AQ, AspectJ, Spring

**Databases:** Oracle

**Responsibilities:**

- Building a web application (seller dashboard) that facilitates bol.com and other users with the selling of secondhand books. The moment a customer choses a (new) book on the bol.com web site, the application will try to find also secondhand offerings of the same book that are offered by registered secondhand book sellers. If found, it will present the potential buyer with the choice to buy a new example on the regular bol.com site or a secondhand offering through the seller dashboard application. The going live moment was covered in all the major Dutch news papers and news sites.
- Doing additional JMeter measurements and scripting to guarantee a certain minimum performance of the seller dashboard application.
- Building, testing and deploying an Apache Httpd / Tomcat cluster for the seller dashboard application.

## KLM, Schiphol-Rijk, NL

**Customer:** KLM, Schiphol-Rijk, NL

**Duration:** Sept 2006 - Oct 2006

**Position:** Senior Consultant

**Hardware:** IBM AIX, x86

**Development Activities:** Java, Ant, AIX

**Databases:** N.A.

**Responsibilities:**

- Implemented and bug fixed an Ant based framework for automatically deploying various J2EE applications on one to many servers in an automated and controlled way.

## UWV, Amsterdam, NL

**Customer:** UWV, Amsterdam, NL  
**Duration:** April 2006 - Sept 2006  
**Position:** Senior Consultant  
**Hardware:** IBM AIX, x86  
**Development Activities:** Java, Spring, J2EE, Linux  
**Databases:** Oracle, DB2  
**Responsibilities:**

- Performance tuning of a batch processing application (Polis and VDA) which would run for up to 10 days and process and transform at least 20GB of data used for various UWV's data stores and data warehouse's.
- Using various tools to identify performance hotspots on Polis and VDA.
- Recreating an environment that as closely as possible mimics the real Polis and VDA environment (a 100% match was impossible due to funding constraints).

## UWV, Amsterdam, NL

**Customer:** UWV, Amsterdam, NL  
**Duration:** February 2006 - April 2006  
**Position:** Senior Consultant  
**Hardware:** IBM AIX  
**Development Activities:** Java, Spring, J2EE, Apache's Lucene, Messaging  
**Databases:** Oracle, DB2  
**Responsibilities:**

- Building a Spring based Web Application (codename JMS Console) used for administrating Java Messaging Queues. The application can connect to various JMS queues, display the messages, edit the XML message body of messages and resent them to (another queue). Every mutation to a single message is completely traceable for accountability and happens in a transactional context to minimize data loss. Full-text search of the complete message (xml message and properties, body, JMS properties, etc, etc) has been implemented using Apache's Lucene.

## ANWB, Den Haag, NL

**Customer:** ANWB, Den Haag, NL  
**Duration:** January 2006  
**Position:** Senior Consultant  
**Hardware:** x86  
**Development Activities:** Java, Spring, OpenLDAP  
**Databases:** N.A.  
**Responsibilities:**

- Bug fixing an application used for managing users, groups and the corresponding user credentials and access rights. Furthermore this application also handles the access to various system resources and applications.

## Ministerie van Verkeer en Waterstaat (AVV), Rotterdam, NL

**Customer:** Ministerie van Verkeer en Waterstaat (AVV), Rotterdam NL  
**Duration:** December 2005 - January 2006  
**Position:** Senior Consultant  
**Hardware:** N.A  
**Development Activities:** CVS, ViewCVS, TortoiseCVS, Linux  
**Databases:** N.A.  
**Responsibilities:**

- Developed a system for archiving and revision controlling Microsoft Word Documents. Files are pessimistic locked and read-write access is securely handled using Tortoise in combination with SSH. Read-only access is provided using a web front-end implemented using viewcvs.

## O2, Dublin, IE

**Customer:** O2, Dublin, IE

**Duration:** November 2005

**Position:** Technical Specialist

**Hardware:** Sun UltraSparc

**Development Activities:** Java 5, JAVA EE , Solaris 10, Access and Identity Management

**Databases:** Oracle, DB2

**Responsibilities:**

- Assisting with the integration of Sun Java System Access Manager with IBM's WebSphere Commerce Suite.

## Swisscom Mobile, Bern, CH

**Customer:** Swisscom Mobile, Bern, CH

**Duration:** August - September 2005

**Position:** Technical Specialist

**Hardware:** Sun UltraSparc

**Development Activities:** Java 5, JAVA EE , Solaris 10, JES Access and Identity Manager

**Databases:** Oracle, MySQL

**Responsibilities:**

- Deployed the Sun Java System Access Manager (AM) in the Sun Java System Application Server (AS). Provisioned the Sun Java System Directory Server (DS) with user data from existing sources using the Sun Java System Identity Manager (IDM ). Installed SunONE Identity Server Policy Agent 's (Policy Agent) in front of other systems/application (like Siebel for example). These agents intercepts the authentication request and reroutes it to the AM. The AM takes care of authentication and authorization and if everything is alright , the user receives an SSO token. This token will be recognize by other Policy Agents and if the token is still valid, will enable the 'Login once and use every other system throughout the company' experience.
- Login handling and Password Policy enforcement, meaning developing the forms (JSP/JATO) used for login into the system or for changing passwords. Implemented mechanism to check if the provided credentials are valid, the newly chosen password and the confirmation password actually confirms to the company enforced password policies. Changing passwords is actually handled by the IDM. Meaning if the user changes his password a connection (http/https) must be made from the AM to the IDM to update the password. Any error occurring in the IDM must be passed back to the user in a 'human readable way' , preferably in his chosen language. Resulting in multi language error and message handling.

## U2 Vertigo Tour 2005, Amsterdam, NL

**Customer:** U2 Vertigo Tour 2005, Amsterdam, NL

**Duration:** July 2005

**Position:** Technical Specialist

**Hardware:** Sun UltraSparc

**Development Activities:** N.A.

**Databases:** N.A.

**Responsibilities:**

- Support of the by Sun delivered and used for Live 8, text-messaging infrastructure that enabled all concert attendees, not only to witness the concert, but to join in and participate in a global movement to end extreme poverty. Concert goers and viewers text messaged their names to code 'unite' or

86483 and joined the campaign to end African poverty. I had to make sure that the text messages where not offensive.

## Radboud University, Nijmegen, NL

**Customer:** Radboud University, Nijmegen, NL

**Duration:** March 2005 - May 2005

**Position:** Technical Specialist

**Hardware:** Sun UltraSparc

**Development Activities:** Java, Spring Framework, Servlet API, Ant, Maven

**Databases:** N.A.

**Responsibilities:**

- After installing a new email platform certain address book related problems arose. Outlook CSV address book exports and Mozilla LDIF address book export could not be imported and the address book exports of the new mail platform could not be imported into Outlook. Using Spring I developed a web application with the following characteristics in an attempt to solve these problems:
- An extensible (sequential) converter framework used for uploading, converting and downloading an Outlook CVS address book export file. The following converters are currently implemented and used; Convert Dutch headers to English headers using a configurable language translation map. Remove all line breaks in entries. Rewrite the file whereby a configurable list of include headers is used (all headers not listed in this file are removed with it corresponding value in the CSV entry itself). Re-parse the file and remove all entries which are not valid or can't be imported into the new mail platform resulting in a rather complex rule set to follow.
- An extensible (sequential) file encoding framework used for uploading, re-encoding and downloading an address book export from the new mail platform. After the encoding the address book can be imported into Outlook. The following converters are currently implemented and used; Read file as UTF8 and save it at ISO8859\_1.
- A quick validator for LDIF address book exports used for uploading, validating and displaying the results. The validator checks against a certain rule set to determine if entries found in the LDIF file are valid and can be imported into the new mail platform. The result's like wrong entries found in the file and their corresponding line numbers are then displayed to the user plus a suggestion of what to do next.

## KPN Mobile, Den Haag, NL

**Customer:** KPN Mobile, Den Haag, NL

**Duration:** October 2003 - March 2005

**Position:** Java Consultant

**Hardware:** Lots and lots of Sun UltraSparc iron

**Development Activities:** Java, J2EE, Ant, Shell scripting, Sys admin, Operations

**Databases:** Oracle 9i

**Responsibilities:**

- System administrator for the MMS, WLAN, iMMS and certain parts of the iMode platform, which are all part of KPN's Open Service Architecture (OSA) Platform.
- Maintaining, improving, fixing and extending the source base.
- Adding new functionality.
- Maintenance of KPN's MMS SunONE middle-ware stack [Directory Servers (+/- 8 instances), App servers (+/- 14 instances), Message Queues (+/- 6 instances), MTA's (+/- 8 instances)].
- Design and implementation of code fixes used for patching the test and production platform.
- Design and implementation of innovative solutions to enhance the MMS platform and to support future MMS protocols/versions.
- Partitioned the test platform into multiple independent domains to support concurrent development and testing.
- Merged two '+650 source files, lots of scripts, descriptors and other files' code bases. The result was the MMS2 platform launched mid August 2004.



- Interfacing with KPN Mobile's LDAP based Data warehouse for auto provisioning of newly bought mobile phones.
- CVS administration.
- Local user management.
- Operations related tasks, like monitoring, being stand by.
- Making sure that KPN's customers are able to MMS with minimal disruption.
- Wrote Ant based custom Java Enterprise System (JES) installer.

## Kredietbank SA Luxembourgeoise, Luxembourg, LX

**Customer:** KBL (Kredietbank SA Luxembourgeoise), Luxembourg, LX

**Duration:** September - October 2003

**Position:** Senior Java Architect

**Hardware:** Sun Enterprise 10000/15000

**Development Activities:** Java, J2EE, Performance analysis/tuning

**Databases:** DB2

**Responsibilities:**

- Architectural assessment and performance tuning of a poor performing application used for day trading stock options. At the end of the assessment requests were handled in 2 seconds instead of the original 4 to 5 seconds.

## KPN Mobile (Solution House Services), Den Haag, NL

**Customer:** KPN Mobile (Solution House Services), Den Haag, NL

**Duration:** May - October 2003

**Position:** Java Consultant

**Hardware:** Lots and lots of Sun UltraSparc iron

**Development Activities:** Java, J2EE, Ant, Shell scripting, Sys admin, Operations

**Databases:** Oracle 9i

**Responsibilities:**

- Launching KPN's MMS to the Dutch market.
- Wrote the build and deploy mechanism used for deploying KPN's MMS platform to the Dutch market.
- Maintaining KPN's MMS SunONE middle-ware stack [Directory Servers (+/- 8 instances), App servers (+/- 14 instances), Message Queues (+/- 6 instances), MTA's (+/- 4 instances)].
- CVS administration.
- Local user management.
- Daily backup of the environment.
- Operations related tasks, like monitoring, being stand by

## Sun Microsystems, Amersfoort, NL

**Customer:** Sun Microsystems, Amersfoort, NL

**Duration:** April - May 2003

**Position:** Java Consultant

**Hardware:** Sun Netra T4 (2x UltraSPARC-III)

**Development Activities:** Java, Sys admin

**Databases:** MySQL 64 bit's version

**Responsibilities:**

- This project was a P.O.C (Proof of concept).
- Created a meta data layer on top of existing information sources.
- Stored all meta data in Sesame, Administrator's Open Source RDF Schema-based repository, which is capable of querying complex meta data.

- Implemented Administrator's Spectacle:Server and Spectacle:Explorer to allow people to explore the information.

## KPN, Den Haag, NL

**Customer:** KPN, Den Haag, NL

**Duration:** March 2003

**Position:** Java Consultant

**Hardware:** n.a

**Development Activities:** Java, JATO, Design Patterns, Development strategies

**Databases:** N.A.

**Responsibilities:**

- Knowledge transfer:
- Held a presentation about the benefits of using application frameworks like for example JATO.

## Vodafone, Breda, NL

**Customer:** Vodafone, Breda, NL

**Duration:** March - April 2003

**Position:** Consultant

**Hardware:** UltraSparc based systems

**Development Activities:** Perl, Apache, Solaris 8

**Databases:** n.a

**Responsibilities:**

- Generated and installed a tuned Apache HTTP Daemon.
- Made and installed a Perl script to bypass flaws in an application, used for location based dating which is part of the 'Vodafone live!' stack.

## Vizzavi/Vodafone, Amsterdam, NL

**Customer:** Vizzavi/Vodafone, Amsterdam, NL

**Duration:** January 2003 - March 2003

**Position:** Java Consultant

**Hardware:** Various UltraSparc based systems

**Development Activities:** Java, JavaScript, HTML, XML

**Databases:** Oracle 8.n.n

**Responsibilities:**

- Re-branding the Vizzavi web portal. After Vodafone's acquisition of Vizzavi, the web portal had to be re-branded to the Vodafone look and feel.
- Writing build scripts and deployment guides to successfully launch the re-branded portal.

## Vizzavi/Vodafone, Amsterdam, NL

**Customer:** Vizzavi/Vodafone, Amsterdam, NL

**Duration:** July 2002 - January 2003

**Position:** Java Consultant

**Hardware:** Various UltraSparc based systems

**Development Activities:** Java, J2EE, SQLplus, J2ME, XML, XSL, XSLT, WML, PML

**Databases:** Oracle 8.n.n

**Responsibilities:**

- Major responsibilities before and during the successful launch of 'Vodafone live!'. Responsibilities included releasing 'Vodafone live!' on time, stable and good performing to the Dutch market.
- Integrating third party content (+/- 80 channels, Java games, ring tones, news), which are served through the portal instance to mobile phones used for 'Vodafone live!'.

- System administration and configuration of the various engines, Servers and instances used to Server content to two and a half/third generation mobile phones.
- Bug fixing.
- Fire fighting.
- Portal wide changes/re-factoring's.
- Performance tuning.
- Developing administration functionality.

## Cap Gemini, Utrecht, NL

**Customer:** Cap Gemini, Utrecht, NL

**Duration:** June 2002

**Position:** Java Consultant

**Hardware:** UltraSparc based systems

**Development Activities:** Java, J2EE

**Databases:** IBM DB/2

**Responsibilities:**

- 911 Call. Tuning and debugging of an J2EE application.

## Metropolitan Police Department, Manchester, UK

**Customer:** Metropolitan Police Department, Manchester, UK

**Duration:** June 2002

**Position:** Senior Developer

**Hardware:** UltraSparc based systems

**Development Activities:** Java, J2EE, XML, BEA Weblogic

**Databases:** Oracle 9i

**Responsibilities:**

- Developing a 'Hub' that parses information collected by different systems into an uniform format and routes it to the appropriate legacy systems used throughout the Metropolitan Police Department. These systems are used in the process of crime investigation throughout the UK.

## IQUIP, Leerdam, NL

**Customer:** IQUIP, Leerdam, NL

**Duration:** April 2002

**Position:** Senior Developer

**Hardware:** Sunfire 280

**Development Activities:** Java, J2EE

**Databases:** -

**Responsibilities:**

- Fire fighting. Solving an urgent situation with respect to deploy problems on iAS 6.5.

## IQUIP, Leerdam, NL

**Customer:** IQUIP, Leerdam, NL

**Duration:** April 2002

**Position:** Java Consultant

**Hardware:** Sunfire 280

**Development Activities:** Java, J2EE

**Databases:** -

**Responsibilities:**

- Installation of an iPlanet development environment, which reflects a certain production environment used at the Postbank. The hand-over happened in a later stage and was done by giving an info

session (presentation) to a group of developers and administrators, which will use and maintain the environment.

## Ordina, Utrecht, NL

**Customer:** Ordina, Utrecht, NL  
**Duration:** April 2002  
**Position:** Java Consultant  
**Hardware:** UltraSparc  
**Development Activities:** Java, J2EE  
**Databases:** -  
**Responsibilities:**

- iPlanet troubleshooting and performance tuning:
- Resolving an urgent problem related to iPlanet's Lightweight CMP.
- Analyzing and bug fixing the strange RMI/IOP behavior of iAS6SP4 when under heavy load.

## Banque et Caisse d'Epargne de l'Etat, Luxembourg, LX

**Customer:** BCEE (Banque et Caisse d'Epargne de l'Etat), Luxembourg, LX  
**Duration:** March 2002  
**Position:** Java Consultant  
**Hardware:** IBM AS 400  
**Development Activities:** Java  
**Databases:** Cloudscape  
**Responsibilities:**

- Architectural assessment and performance tuning of a non performing client-Server banking application:
- Thread analysis.
- Code audit.
- JCE provider switching.
- Upgrading the database, which was used in the client(!) application.

## Vizzavi/Vodafone, Amsterdam, NL

**Customer:** Vizzavi/Vodafone, Amsterdam, NL  
**Duration:** June 2000 - February 2002  
**Position:** Java Consultant  
**Hardware:** Various UltraSparc based systems  
**Development Activities:** Java, J2EE, SQLplus, BEA Weblogic, SunOne Web/Directory  
**Databases:** Oracle 8.n.n  
**Responsibilities:**

- Bug fixing.
- Fire fighting.
- Directory Server tuning.
- Re structuring the overall build process to make it significantly faster.
- Implemented various frameworks (startup, messaging, locatable framework)
- Redesigned various parts of the portal.
- Portal wide changes.
- Performance tuning.
- Made the portal vendor independent.
- www.eindelijkzomer.nl (the software to aid the Vizzavi marketing campaign called 'eindelijk zomer').
- Visual designs, in the early days.

## Scamea, Amsterdam, NL

**Customer:** Scamea, Amsterdam, NL

**Duration:** May 2000

**Position:** Java Consultant

**Hardware:** N.A.

**Development Activities:** Java

**Databases:** n.a

**Responsibilities:**

- Custom made, Java based, object load-balancing framework with support for Microsoft COM+ / Java bridging, deployed at the insurance comparison web site Mr. Finch. [www.mrfinch.nl](http://www.mrfinch.nl).

## Telegraaf, Amsterdam, NL

**Customer:** Telegraaf, Amsterdam, NL

**Duration:** January 2000

**Position:** Java Programmer

**Hardware:** IBM AS400

**Development Activities:** Java, XML

**Databases:** DB2

**Responsibilities:**

- Developing applets used for translating the daily financial information feeds into various charts and other forms of graphical representations. [www.dft.nl](http://www.dft.nl)

## b.hold, Amersfoort, NL

**Customer:** b.hold, Amersfoort, NL

**Duration:** September 1999

**Position:** Research and Development

**Hardware:** Developer, Java Programmer

**Development Activities:** Java, WAP

**Databases:** Oracle8, MS SQLServer 7

**Responsibilities:**

- Implementing secure authorization by smartcards and other means for enterprise systems like Baan4, Sap and Baan E-Enterprise.
- Designing, developing and implementing an application to WAP enable Baan's E-Enterprise.
- WAP application built for handheld clients (tested on Ericsson R380's mobile phone, 3Com's Palm III, to log in to various enterprise system (Baan's E-enterprise in conjunction with Baan v.4). This WAP enabled application was presented at the BaanWorld event '99 in Vienna and was one of the first WAP Enterprise related system in the Netherlands.

## e-Norm the e-business Company, Houten, NL

**Customer:** e-Norm the e-business Company, Houten, NL

**Duration:** May 1999

**Position:** Developer, Programmer

**Hardware:** PC, Windows, Linux

**Development Activities:** Java, HTML

**Databases:** SybaseSQLAnywhere

**Responsibilities:**

- Programming a content management system.
- Developing and programming a CMS consisting of an user management tool, a performance monitoring tool and a load balancing and a clustering mechanism.

## 2nd International Browser Day Competition, Amsterdam, NL

**Customer:** 2nd International Browser Day Competition, Amsterdam, NL

**Duration:** April 1999

**Position:** Developer, Programmer

**Hardware:** PC, Windows

**Development Activities:** Java, J++

**Databases:** N.A.

**Responsibilities:**

- Developing a new concept for a browser called the 'Abstract Browser Toolkit'. This is a tool kit to model and build your own browser. The browser was able to browse various data formats like HTML, IMAP, SQL. I got an honorable mention for one of the most innovative solutions.

## Transfer, Leerdam, NL

**Customer:** Transfer, Leerdam, NL

**Duration:** February 1999

**Position:** Developer

**Hardware:** PC, Windows

**Development Activities:** Java, J++

**Databases:** MS SQL Server

**Responsibilities:**

- Developing an (almost real-time) energy monitoring application used at a Dutch electric power company for monitoring energy flows, keeping track of customers energy consumptions and facilitating in the billing process.
- Developing an real-time menu item generator.

## RAET IT Services, Nieuwegein, NL

**Customer:** RAET IT Services, Nieuwegein, NL

**Duration:** December 1998

**Position:** Developer

**Hardware:** PC, Windows

**Development Activities:** Java, Silverstream

**Databases:** SQLServer

**Responsibilities:**

- Debugging and extending of a Silverstream based n-tier web application.
- Programming the "more difficult" modules of this application.

## Open University, Heerlen, NL

**Customer:** Open University, Heerlen, NL

**Duration:** October 1998 - January 1999

**Position:** (Part of masters program) Software Architect

**Hardware:** PC, Windows

**Development Activities:** Java, Silverstream

**Databases:** SybaseSQL Anywhere

**Responsibilities:**

- Developing and programming of a multi-tier web application.
- Programming the structure of the application in Java.
- Programming a proof of concept in Java.

## Shell SIEP, Rijswijk, NL

**Customer:** Shell SIEP, Rijswijk, NL  
**Duration:** November 1998 - December 1998  
**Position:** Programmer  
**Hardware:** PC, Windows  
**Development Activities:** Java, Silverstream  
**Databases:** SybaseSQL Anywhere  
**Responsibilities:**

- Debugging and extending a "Java, Silverstream based web application.

## Netspanning, Amsterdam, NL

**Customer:** Netspanning, Amsterdam, NL  
**Duration:** August 1998  
**Position:** Developer  
**Hardware:** PC, Windows  
**Development Activities:** Java  
**Databases:** Oracle  
**Responsibilities:**

- Programming versioning functionality and the front-end for this functionality which was part of a larger web application used internally at the Institute for Information Engineering.

## Sun Microsystems PS JDC, Santa Clara, US

**Customer:** Sun Microsystems PS JDC, Santa Clara, US  
**Duration:** February 1998 - May 1997  
**Position:** Intern  
**Hardware:** Lot's of (Ultra) Sparc  
**Development Activities:** Java  
**Databases:** N.A.  
**Responsibilities:**

- Researching and exploring the Java Telephony API and the Java 3-D API.
- Deploying a JavaStation network at a College in Santa Clara.
- Exploring of Java embedded technologies.
- Generating Java Beans.
- Palm Pilot programming.

## Hogeschool van Utrech, Utrech, NL

**Customer:** Hogeschool van Utrech, Utrech, NL  
**Duration:** December 1997  
**Position:** Offline Video Jockey  
**Hardware:** Apple PowerPC  
**Development Activities:** N.A.  
**Databases:** N.A.  
**Responsibilities:**

- Made a 30 minute videotape containing 3-D animations and edited film footage, used at a new years party. I rendered most of the animation myself.

## N.A.

**Customer:** N.A.

**Duration:** August 1997 - December 1997

**Position:** N.A.

**Hardware:** Macintosh, self-made components

**Development Activities:** MacroMedia's Lingo

**Databases:** N.A.

**Responsibilities:**

- Concept, interactive script and story line of an interactive story with a physical interface used to give children a virtual walk-through the computer internals. We connected a treadmill to a computer and then cabled the video output to a big screen. The user experience was a real physical walk-through the inside of a computer. The story explained the user the internal workings of a computer device.

## JB Image Keukens, Oud Beijerland, NL

**Customer:** JB Image Keukens, Oud Beijerland, NL

**Duration:** July 1997

**Position:** Designer

**Hardware:** Apple Macintosh

**Development Activities:** N.A.

**Databases:** N.A.

**Responsibilities:**

- Designed all aspects of brand recognition for a startup kitchen retailer. This was purely a designing job. I made his logo, choose the colors used for painting his shop and did the layout for all his papers like billings, order forms and envelopes.

## Study Watchers, Gouda, NL

**Customer:** Study Watchers, Gouda, NL

**Duration:** November 1996

**Position:** Developer, User Interface Designer

**Hardware:** PC, Apple Macintosh

**Development Activities:** HTML, Perl

**Databases:** N.A.

**Responsibilities:**

- Design and programming of the Study Watchers web site, including some basic CGI scripts and animated GIFs. I did most of the concept and design related activities.

## Catharina Gasthuis, Gouda, NL

**Customer:** Catharina Gasthuis, Gouda, NL

**Duration:** September 1996

**Position:** Animator, Modeler

**Hardware:** Apple Macintosh

**Development Activities:** N.A.

**Databases:** N.A.

**Responsibilities:**

- A 3-D representation of a future exhibition (planned 1999) on printed and digital media. I made a 3-D model of the inside of the building plus the artifacts. After that I used this model to make a two-minute walk through animation displaying all artifacts in great detail.

## Customers & Employers

**Duration:** Sept. 2008 - Current

**Company:** Hellwig Consultancy, Gouda, The Netherlands



**Position:** Independent Contractor/Owner

**Duration:** Jun. 2007 - Jun. 2008

**Company:** Bol.COM, Nieuwegein, The Netherlands

**Division:** Information Technology

**Position:** Senior Java Developer

**Duration:** Dec. 2005 - Jun. 2007

**Company:** Xebia Group, Hilversum, The Netherlands

**Division:** Xebia IT Architects

**Position:** Senior Consultant

**Duration:** Feb. 2000 - Dec. 2005

**Company:** Sun Microsystems, Amersfoort, The Netherlands

**Division:** Professional Services/Solution Technology Group

**Subdivision:** Sun Java Center/.COM Consulting Practice/Software Services

**Position:** Java Consultant

**Duration:** Sept. 1999 - Jan. 2000

**Company:** bHold, Amersfoort, The Netherlands

**Position:** Tool Developer

**Duration:** Aug. 1998 - Aug. 1999

**Company:** E-NORM the e-business company, Houten, The Netherlands

**Position:** Interaction Designer

**Duration:** Feb. 1998 - May 1998

**Company:** Sun Microsystems, Santa Clara, United States

**Division:** Sun Services

**Subdivision:** Java Design Center

**Position:** Intern/Java Developer

## Education

**Duration:** 1998 - 1999

**School:** University of Portsmouth, Portsmouth, United Kingdom

**Result:** European Media Master of Arts degree Interactive Multimedia (MA/drs.)

**Duration:** 1995 - 1999

**School:** Utrecht School of the Arts, Hilversum, The Netherlands

**Result:** Engineering degree Art and Technology (ing.)

**Duration:** 1993 - 1995

**School:** Het Gouwe College, Gouda, The Netherlands

**Result:** High School Diploma (HAVO)

## Language Skills

- Good command of the Dutch, English and German language

## Human Metrics

## Personality based on Jung - Myers-Briggs typology

- INTJ (Introverted, iNtuitive, Thinking, Judging)
- Mastermind, The Free-Thinker, The Scientist, Systems Builder, The Rationals
- Most self-confident and pragmatic of all the types
- Decisions come very easily
- Builder of systems and the applier of theoretical models
- Problems only stimulate them -- the impossible takes a little longer, but not much
- Know what they know, and perhaps still more importantly, they know what they don't know
- Apply (often ruthlessly) the criterion "Does it work?" to everything from their own research efforts to the prevailing social norms, producing an unusual independence of mind, freeing them from the constraints of authority, convention, or sentiment for its own sake
- Perhaps the most fundamental problem, however, is that INTJs really want people to make sense (Marina Margaret Heiss, University of Virginia)

## Field of Experience

### Access and Identity Management

- Sun Java System Access Manager (Sun AM) 6.0 - Current on Solaris Sparc/X86, OSX
- Sun Java System Identity Manager (Sun IDM) 5.0 - Current, in combination with MySQL 4 and Oracle 10g on Solaris Sparc/X86, Mac OS X
- OpenSSO, in combination with MySQL 5 and OpenDS 1.0, Mac OS X

### Application Servers

- Glassfish (open source version of Sun Java System Application Server 9+), on Solaris 10 Sparc/X86, Mac OS X and FreeBSD
- Sun Java System Application Server PE v. 8.0 on FreeBSD 5.2.1 i386, Mac OS X; connected to Sun Java System Message Queue 3.5 SP1, OpenLDAP and PostgreSQL
- SunONE Application Server SE v. 7 + on Solaris; connected to SunONE Message EE 3.0 - Current, SunONE Directory Server (Proxy), Sun Java System Directory Server, OpenLDAP, Oracle 9i EE, PostgreSQL 7.4 - Current
- BEA Weblogic Server v.5.1, 6.1, 7, 8, 9 on Solaris, Windows
- iPlanet Application Server EE v. 6 - 6.5 on Solaris
- SunOne Application Server SE 7 on Solaris, Windows 2000
- Oracle Application Server 10g on Red Hat Enterprise Linux 4
- Orion Application Server on Solaris, FreeBSD, Windows
- SilverStream Web Application Platform on Solaris, Windows
- JBoss Application Server on OS X, Windows, Solaris

### Databases

- Oracle 8i/9i/10g on Solaris Sparc/X86. Oracle 9i/10g on Mac OS X and Red Hat Enterprise Linux 4
- Sybase SQL Anywhere on Solaris, Windows
- Postgres on Solaris, FreeBSD, MacOS X, Cygwin, Linux
- Sleepycats Berkeley DB Java Edition 1.5.1 - 3.2.44
- Mysql 4, 5 on Solaris, Mac OS X
- Informix/IDS 11.5 on Mac OS X, Linux
- IBM DB2 Express-C on Mac OS X

### Directory Servers and Proxies

- Netscape/iPlanet/SunONE Directory Server v. 4.13 - Current on Solaris, Windows

- SunONE Directory Server Proxy 5.2 +, on Solaris
- Sun Java System Directory Server, multi-master + multiple consumers, on Solaris, Windows 2000
- OpenDS, on OSX
- OpenLDAP 2.2.7\_2 - Current on Solaris, FreeBSD, MacOS X

## e-Commerce Software

- ATG Commerce e-Commerce software (ATG2006.3, ATG2007.1)

## Media Server Software

- Darwin's Streaming Media Sever 5.0.0.1 on Solaris 9/Sparc, FreeBSD/i386, MacOS X; build an architecture that offered twelve MP3 streams, two video-on-demand channels and one a live audio broadcast (Quicktime over RTSP) to registered users. The architecture consisted of one Broadcaster, two Relays (one hot spare) and one Destination for multiple clients.
- Apple's Quicktime Broadcaster on MacOS X

## Message Oriented Middleware

- Sun Java System/SunONE/iPlanet Message Queue; with OpenLDAP/S1DS object store and default file persistent store / Oracle 9i persistent store v2+ (SE/EE) - Current on Solaris
- Progress SonicMQ on Solaris, Windows

## Migration's

- Migrated a Spring MVC web application that used Spring JDBC templates for persistence, Spring Security against an OpenDS Directory Server for user authentication, Quartz Scheduler and Spring Mail Templates for back-end admin functionality, without losing existing functionality to Google's App Engine. Had to come up with various patches to deal with GAE's JRE white list.
- Domain (DNS)/IP Range migration
- Oracle 9i -> PostgreSQL 7.2.4
- Successfully converted existing +5 year old CVS repository to SVN
- SunONE Directory Server 5.2 -> OpenLDAP 2.2.88
- SunONE Application Server 7.0.0\_03 (web container) -> Jakarta-tomcat-5.0.16

## Miscellaneous

- Apache Web Server (32/64 bit) v. 1.3 - Current + mod\_ssl, mod\_jk on Solaris (chroot'ed, normal), \*BSD, MacOS X, W2K
- iPlanet Calendar Server v. 5.+
- iPlanet Web Server v. 4+ - Current
- Microsoft Internet Information Server
- Apache Tomcat 4, 5, 6, (Clustered and or Load balanced, normal)
- SunONE/ iPlanet Web Proxy 3.6 - Current

## Mobile

- WAP & SMS Gateways, SMSC & MMSC
- PPG, MMS Proxies & Relays, PAP, VASP, SMPP, MM1, MM3, MM4, MM7
- Openwave SDK's, Nokia SDK's, Kannel, Mbuni, SMPPSim

## Networking

- Building internal networks according to RFC 1918
- Enabling High Performance Data Transfers
- NetBSD based firewalls with nat and ipfilter

- Hardening NetBSD/OpenBSD/FreeBSD firewalls
- Keeping NetBSD firewall up-to-date by applying any issued security advisories

## Operating Systems

- Unix: Solaris 8, 9, 10, OpenSolaris, FreeBSD, NetBSD, ClosedBSD, OpenBSD, Cygwin, Linux (Fedora, Red Hat Enterprise Linux/Enterprise Linux Advanced Platform), MKLinux, LinuxPPC
- MacOS 7.5.1 - OS X 10.5
- Windows: NT Server,-Workstation, 95, 98, 2000, XP, XP Media Center Edition

## Programming/Scripting Languages, API's and others

- Java, Jini, J2EE (JMS, JSP, Tag Libraries, Servlet, EJB, MDB), AspectJ, Spring, Hibernate, Rest/Restlet, OSGi, Spring DM, Spring Security, Eclipse Equinox, ops4j's Pax
- JavaCard, OCF, Lejos in combination with Lego Mindstorms, J2ME (CLDC, MIDP), SOAP, JMX, Ant, Maven, Beanshell
- Junit, Selenium, JunitEE, Cactus
- Ajax, Javascript, (X)HTML, Adobe Air
- XML, XSLT
- Bash and Shell (sh) scripting
- Ruby, Rails, Groovy, Grails, Scala, Php, SQL
- Docbook
- Mac OS X Dashboard Widgets

## System Daemons

- Bind 8, 9 on Solaris (chroot'ed, normal), FreeBSD
- Subversion (SVN) on Solaris (access methods: svn, svn+ssh, http and https).
- SVK, used in conjunction with SVN for offline development activities
- CVS on Solaris, FreeBSD
- DHCP on Solaris
- NFS on Solaris, FreeBSD
- Squid Proxy on Solaris (32/64 bit), FreeBSD
- SSHD on Solaris (32/64 bit), FreeBSD
- RSYNC on FreeBSD, Solaris

## Most favorite Technologies

- Web technologies: Servlet, JSP, Rest, Json
- Asynchronous messaging technologies: JMS
- Springframework
- Spring DM, OSGi
- Javascript, (x)html, css
- AspectJ
- Ruby, Rails
- Mac OS X
- Lejos (in combination with Lego Mindstorms)
- Jini (specially JavaSpaces)
- NetBSD/FreeBSD
- Solaris

## Publications and others

- Bug fixed some of the software used in the book JavaSpaces, Principles, Patterns and Practice. I received thank you email's (kudos) from all of the three authors.(Freeman, Hupfer, Arnold)

- O'Reilly Web performance Tuning Book. A little (sarcastic) thank you note in the acknowledgments
- A Sun internally 'used' architectural Pattern

## Open source Projects

- ATG DUST (ATG Dynamo Unit and System Tests), hosted on <http://sourceforge.net/projects/atg-dust>

## Training

- ATG, Developing ATG Applications, Part 1 & 2, Houten, NL
- ATG, Creating Commerce Applications Using the ATG Commerce Framework, Nieuwegein, NL
- ATG, Managing ATG Commerce, Nieuwegein, NL
- ATG, Administering ATG applications on JBoss, Nieuwegein, NL
- Sun Microsystems AIM, Amersfoort, NL
- Sun Microsystems 3DM, Amersfoort, NL
- Sun Microsystems 3DM, Denver, USA
- Rationals OOAD using the UML, Schiphol-Rijk, NL
- Internet security training, Zeist, NL