

## drs. Jeroen Derks, CISSP, SCJP, ZCE, MCC

My professional experience is mostly in Internet/web development and applications derived from it with special attention towards security.

At the moment I am currently available as a senior software developer and security consultant on a contracting basis in Amsterdam or Spain.

### Skills / knowledge

Programming languages:	BASIC, bourne shell, C, C++, JavaScript, Modula-2, Pascal, PHP, SQL, (Assembly, ASP, Java, Perl)
Protocols:	IP, UDP, TCP, FTP, TFTP, HTTP, SOAP, SMTP, POP3, telnet, SSH, SSL
File formats:	Atom, CSS, DTD, HTML, RSS, SMIL, WSDL, WML, XHTML, XML, XSL
Databases:	LDAP, msql, MS SQL (FreeTDS), MySQL, Oracle (MFC ODBC, OO4O), Sybase (Rogue Wave DBTools++)
Operating systems:	Unix (*BSD, Irix, Linux, Minix, Solaris), MS-DOS, Windows 2/3.11/9x/ME/NT/2000/XP, (ComOS, IOS)
Hardware:	Cisco; Livingston Portmaster; PC; SGI Indigo, Indy, O2, Challenge S/XL, Origin 200; Sun 3/4/Netra
Other:	BS7799, CGI, DOM, DNS, GNU, iDEAL, ISAPI, ISO9001, jQuery, LinkedIn API, Magento, MFC, NSAPI, OO, OpenSSL, PGP, PHP-GTK, PHPUnit, Pingdom API, PKI, Prototype, Scrum, VB, VC++ , VID, WAP, Win32, XSLT, Zend Framework

### Experience

<b>Derks.IT</b> Amsterdam	Apr 2011 - now Currently we are working on the development of a commercial and publicly available Magento extension that provides integration with PHPlist and another idea ( <a href="#">Hackmonitor</a> ) which will be completely developed as Magento extensions (PHP, MySQL, Magento, Zend Framework; Linux, Mac OS X).
<b>ABN AMRO</b> Amsterdam	Oct 2010 - now The new internal website for internal vacancies, Smartjobs, was developed using TomatoCMS / Zend Framework cooperating with the product owner, an interaction designer, design agency Luyfel, IT Infrastructure and the hosting provider (PHP, MySQL, TomatoCMS, Zend Framework, LinkedIn API; Linux, Windows; Scrum).
<b>Tele2</b> Amsterdam	Sep 2011 - Oct 2011 For the Tele2 website I did a couple of smaller projects such as: - iDEAL implementation for payments (Dutch standard for online payments by the major banks) - a uptime page for servers using the Pingdom API - modifications for enabling a new product line on the website - management tool for affiliate HTML snippets on the website - research preparing use of the Iccat database (PHP, MySQL, Zend Framework, jQuery, Pingdom API; Linux, Mac OS X, Windows).
<b>Lost Boys</b> Amsterdam	Jul 2011 - Jul 2011 The Magento project that I would work on was cancelled after a couple of days after which I made myself useful for more than a week as frontend developer for monumenten.nl and NS Hispeed (PHP, MySQL, Zend Framework, jQuery, HTML5, CSS3; Linux, Mac OS X, Windows).
<b>Bruno Klassiek</b> Haarlem	Jul 2010 - Aug 2010 For this specialised classical CD and DVD store setup a webshop for selling tickets to classical concerts based on Magento with custom bugfixes and customisations (PHP, MySQL, Magento; MacOSX, Linux, Windows)
<b>StudyTravel</b> Malaga	Ap 2010 - Dec 2010 As a PHP software developer I again worked on implementing new functionalities into the website and related maintaince work (PHP, Smarty, MySQL, JavaScript; Linux, Windows).
<b>Ibarra y Sanjuan</b> Amsterdam	Mar 2010 - Jun 2010 For this customer I setup a B2B webshop based on Magento with custom bugfixes and custimisations (PHP, MySQL, Magento; MacOSX, Linux, Windows).

- StudyTravel**  
Malaga  
Mar 2009 - May 2009  
As a PHP software developer I worked on implementing new functionalities into the website and related maintaince work (PHP, Smarty, MySQL, JavaScript; Linux, Windows).
- TomTom**  
Amsterdam  
Mar 2008 - Feb 2009  
As a PHP software developer I contribute to the development team responsible for the TomTom website (PHP, Smarty, MSSQL, JavaScript; Linux, Windows; Scrum). Some of the projects I have done:  
  - Apache module for authentication based on [mod\\_auth\\_tkt](#) (C, OpenSSL, FreeTDS; Linux)
  - Improving the application framework (PHP, Smarty, MSSQL, JavaScript; Linux, Windows)
- BSM**  
Amsterdam  
Sep 2007  
Static code analysis of a HTML subscription form written in PHP for a major bank (PHP, MySQL; Linux, MacOSX, Windows).
- Telfort**  
Amsterdam  
Jan 2007 - Jul 2007  
Again I was part of the development team and responsible for multiple projects. (PHP, PEAR, MySQL, JavaScript, HTML; Linux, Windows)
- marktplaats.nl**  
Amsterdam  
Aug 2006 - Dec 2006  
For a number of months I was part of the development team and responsible for multiple projects regarding the website and the maintenance part. (PHP, PEAR, Smarty, MySQL, JavaScript, HTML; Linux, Windows)
- Derks.IT**  
Amsterdam  
Mar 2006 - Sep 2008  
In cooperation with Holland Online we are working on some ideas, including a community website, shops and simple pay-per-view websites. For the community website I also implemented payments using iDEAL and used my own application framework. (PHP, PEAR, MySQL, JavaScript, SourceGuardian; Linux, Windows)
- ProvenModels**  
Amsterdam  
Jan 2006 - Feb 2006  
I helped this client by fixing a list of bugs in already existing code. (PHP, MySQL, JavaScript; Linux, Windows)
- Ber-Art**  
Breda  
Feb 2005 - Nov 2007  
Support for [Trojan Scan](#) and security support.
- Telfort**  
Amsterdam  
Nov 2004 - Dec 2005  
During this period I built an application framework to be used as the basis for new applications. I re-implemented the registration/authentication parts of the website using this framework, which also included some functional changes. (PHP, PEAR, MySQL, JavaScript, HTML; Linux, Windows)
- Xinox**  
Delft  
Dec 2004  
To allow registered downloads of their JCreator product I built a download registration form, license administration and mailing list (the mailing list is based on the open source application PHPList which has been linked to the downloader data). (PHP, PEAR, MySQL, JavaScript, HTML; Linux, Windows)
- Demon**  
Amsterdam  
Sep 2004  
ISP Demon had performance problems with a PHP/MySQL application used for Customer Care. After analysis of the problems, the MySQL configuration was adjusted, memory expanded and provisons were taken to archive out of date data. (PHP, PEAR, MySQL; Linux, FreeBSD)
- Derks.IT**  
Amsterdam  
May 2004 - Aug 2004  
For an online ad company I created a library which removes double records from the customer database (incl. a similar application and an extension to the process of adding new customers that using this library whether the to be added customer does not already exist). Also I fixed already changed, but not yet working order forms. (PHP, PEAR, PHPLib, Smarty, MySQL, JavaScript, HTML; Linux)
- Neverseen**  
Almere  
Dec 2003 - Feb 2004  
Over a period of several months I created the website of Pacorini Vlissingen, including a simple CMS for the maintenance of the news articles. (PHP, PEAR, MySQL, Javascript; Linux, Windows)

- Telfort**  
Amsterdam  
Jun 2003 - Apr 2004  
During a nine-month period I have been involved actively and pro-actively in the development of various web-applications and APIs. Pro-active in advising on the to be used technology and methods (among others PEAR DB\_DataObject and applying methods such as automatically generated documentation using phpDoc/phpDocumentor, automated testing using PEAR PHPUnit, etc). I also contributed to the security-awareness (e.g.: the security audit (crystal box) on my code did not reveal any critical security problems, some quotes from the report: "defensive way of programming", "the only correct way to deal with this [input validation]", "very good, almost perfect input validation").  
Larger projects for which I was responsible:
- authentication and registration on the website, incl. setting up the user database and extensive and partly generiek administration environment for customer care (PHP, PEAR, MySQL, LDAP, HTML, JavaScript, shell script, perl)
  - dispatching of incoming SMS messages and sending out an EMS logo
  - MMS web-application that allows customers to view MMS messages sent to mobile phones without MMS support (PHP, PEAR, [mmsdiary](#), JavaScript, HTML, XSLT, SMIL)
  - generic API for processing incoming and sending out outgoing messages (SMS, MMS, etc) (PHP, PEAR, MySQL, [dia](#): UML class diagrams)
- Rubicon**  
Vianen  
Mar 2003 - Apr 2003  
For a customer of Rubicon I partly re-build an existing web-application and added new functionality to it regarding among others authentication and uploading files (PHP, PHPLib, Smarty, MySQL, JavaScript, HTML; Linux, Windows, Solaris)
- Rubicon**  
Vianen  
Mar 2003  
For **TPG Post** I wrote the web functionality for [Persoonlijke Postzegels](#), incl. the manipulation of uploaded photographs (PHP, JavaScript, DHTML library, HTML; Linux, Windows)
- Apidea**  
Amsterdam  
Dec 2002 - Dec 2003  
This project concerned unlocking information of railway stations for **ProRail**. It was my job to handle importing data (photography, spreadsheets and other documents) into a MySQL database which was to be used as a SQLite database by an application run from CD. To make this possibly I wrote a SQLite driver for [metabase](#) and a generic database API for the Apidea framework. I also patched the PHP4 SQLite module to handle NULL values properly. (PHP, PEAR, metabase, MySQL, SQLite, VC++ 6, STL; Linux, Windows)
- Derks.IT**  
Amsterdam  
Dec 2002 - Apr 2003  
I build a complete dating site with all required functionality, incl. member registration, authentication, chat, billing, manual matching, 128+ member qualities (PHP, PEAR, Smarty, MySQL, JavaScript, HTML; Linux, Windows)
- Vodafone**  
UK  
Jul 2002 - Sep 2002  
I made some small changes to their CMS (PHP, Oracle, HTML, JavaScript, WebDAV; Linux, Windows 98).
- Razorfish Europe**  
Amsterdam  
Apr 2002 - May 2002  
For the framework of a website for car valuations in different countries and multiple languages per country, I implemented foremost user authentication (incl. registration etc.) (PHP, MySQL, HTML, JavaScript, Visual InterDev; Windows 2000).
- Rits Automatisering**  
Deventer  
Mar 2002 - now  
For the Rits Account website I implemented user authentication (incl. registration, etc.) and user administration (PHP, MySQL, HTML, JavaScript; Linux, Windows 98). Also, I am working on a module that will enable encryption in one of the applications of Rits Account (Visual C++, OpenSSL, PHP, MySQL, SOAP; Linux, Windows 98/2000).
- Apidea**  
Amsterdam  
Feb 2002 - Apr 2003  
Besides the website CMS to enter, modify, remove houseboats for the website [www.woonboot.nl](#), I also wrote a GUI application which could be used e.g. on a laptop to enter new houseboat pictures and data on location at the client and which could be uploaded to the website CMS later. Part of the GUI application was the encryption of the PHP files to prevent unwanted manipulation among others (PHP, PHP-GTK, PEAR, ImageMagick; Linux, Windows)
- EPOCera**  
Amsterdam  
Jan 2002  
For EPOCera I developed a software package in Visual C++ that uses the DOM to store data(-structures), and at the same time XML as the basis of a scripting language (Visual C++, MFC, XML; Windows 98/2000).

- Apidea**  
Amsterdam  
Dec 2001  
As a consultant I advised on the internal IT organization of a customer of Apidea, for which I also joined in on a session with that customer. A short report was written about the session.
- Connected Software**  
Rotterdam  
Nov 2001 - Feb 2002  
For KnowWise, an information system for consumers, I implemented encryption and HTTP proxy authentication (Visual Basic, ASP, MS SQL; Windows 98/2000).
- Stachanov**  
Amsterdam  
Jul 2001 - Aug 2001  
As a contractor I was the main programmer in a project for building a document management system via intranet/internet (web-interface) (PHP, JavaScript, ODBC, MySQL, Microsoft SQL Server; Windows 98/NT, Linux).  
I also did two small subprojects for another project (C, PHP; Windows 98/NT, Linux).
- Wellance**  
Diemen  
Jan 1999 - Jun 2001  
As a Programmer Analyst (Senior since January 2001) I have been responsible for the design and development of the frontend part for the system, which is a system for sending and receiving documents regedoc registered and secured over the Internet or intranet. This encompassed the design and implementation of an ISAPI for Microsoft IIS, using performance counters, registry settings, the eventlog, encrypted communication and timestamping of documents, and an additional configuration utility. To do this I used MFC, PGP, Sybase and Oracle backend database (Rogue Wave DBTools++, Oracle OO4O, ODBC).  
Furthermore, I also dealt with business security as a member of the Security Project Team and helped getting the BS7799 certification.
- Siteways**  
Amsterdam  
Sep 1996 - Dec 1998  
As a Junior Programmer I worked on:
- guardian system for machines, websites, database, payment systems et cetera (C, shell scripts; IRIX)
  - more secure version of the FTP daemon (only users in a certain file can go outside their home directory) (C; IRIX)
  - porting of diverse Perl scripts to PHP (PHP; Windows NT, IRIX)
  - system for preventing abuse of website account/authorisation by multiple persons (C, NSAPI, msql, shell scripts; IRIX)
  - diverse programs and scripts for websites, authorisation- and payment databases (C, PHP, msql, shell scripts; IRIX, Linux)
  - shops for websites (products, shopping basket and interface to payment module) (PHP, msql; IRIX)
  - system for webserver statistics reports (email and HTML) (C, PHP; IRIX)
  - solution to switch to ISDN when the regular (i.e. leased line) Internet connection does not provide enough bandwidth (on location in the U.S. I installed and improved this solution) (shell script; IRIX)
  - porting of (Unix) C JPEG6a library to VC++ for an ActiveX control (Visual C++ 5.0; Windows 95)
  - porting of the C++ Fraunhofer MPEG1-III audio decoder to Java (C++, JDK 1.1; Windows 95, IRIX)
  - Adobe Premiere Plugin for JPEG and AVI (LiveStream) (Visual C++ 5.0; Windows NT)
  - initial design for a generic shop for the Internet (Word 97; Windows NT)
- As an Assistant Systems Administrator I have been responsible for the usual tasks of system administration such as backup, security, mail, DNS, hard- and software installation and configuration, and small programming tasks (Systems: SGI, PC, Livingston, Cisco).
- Vrije Universiteit**  
Amsterdam  
Sep 1993 - Aug 1994  
As a Student Assistant for the courses Software Engineering and Computer Networks with the faculty of Mathematics & Computer Science I coached students with their practical work for these courses. During the first course I coached five groups of about five persons. They had to implement a 'large' program as a team effort. In this case the program to implement was a route planner. The distinguished stages were: requirements specification, design, implementation (in C++) and evaluation. I also was responsible for judging the submitted results. During the second course I coached groups of one or two persons with the design and implementation (in C) of (a simplification) of the IP and UDP network protocols, and an tftp daemon and client. I was only responsible for coaching the groups.

## Education

**Vrije Universiteit** Sep 1990 - Aug 1998  
Amsterdam  
Information Sciences majoring in Computer Science, finished successfully with an M.Sc. During my studies I did practical work for the courses Operating Systems, Compiler Construction, Computer Networks, Programming Languages (lesser known languages: ABC, Ada, Miranda, Prolog and Smalltalk) and Software Engineering.

## Congresses, courses & seminars

<b>Magento</b>	Jun 2011	Magento Developer's Paradise 2011
<b>Magento</b>	Oct 2010	Magento Developer's Paradise 2010
<b>Mediaplaza</b>	Feb 2008	Introduction to Information Security
<b>(ISC)<sup>2</sup></b>	Nov 2007	Certified Information Systems Security Professional (CISSP) [continuation]
<b>MySQL</b>	Jan 2005	MySQL Core Certification (MCC)
<b>Zend</b>	Nov 2004	Zend Certified Engineer (ZCE) [PHP]
<b>(ISC)<sup>2</sup></b>	Sep 2004	Certified Information Systems Security Professional (CISSP) [continuation]
<b>PHP Magazine</b>	May 2004	International PHP Conference 2004 Spring Edition
<b>Sun</b>	Sep 2001	Sun Certified Programmer for Java 2 Platform (SCJP)
<b>(ISC)<sup>2</sup></b>	Jun 2001	Certified Information Systems Security Professional (CISSP)
<b>Microsoft</b>	Oct 2000	Developer Days 2000
<b>Baltimore Tech.</b>	Mar 2000	Mobile Commerce Security Seminar
<b>InfoSupport</b>	Nov 1999	Mastering MFC Development Using Microsoft Visual C++ 6.0

## Activities

**open source projects** Aug 2001 - now  
My own open source projects: [Magento](#): [EmailImages](#) also on Github: [EmailImages](#) (see also my website dedicated to Magento: [Magentron](#)), [PEAR](#): [Crypt\\_Xtea](#), [Trojan scan](#).  
Since some time I am using once more a Unix variant (Linux) as my primary OS. As a result of that I once in a while contribute to different Open Source projects ( [Ecomdev\\_PHPUnit](#), [fwanalog](#), [SnortSnarf](#), [Metabase](#), [modman](#), [NuSOAP](#), [PEAR](#): [PHPDoc](#), [PHP](#): [OpenSSL](#) module).

**Home Owners Association** Aug 2006 - Dec 2011  
Amsterdam  
For more than four years I have been the treasurer of my Home Owners Association.

**NGI** 2001 - 2009  
Dutch Society for Information Science ([NGI](#), Dutch), Security department.

**S.V. Cyclades** Oct 1993 - Aug 1998  
Amsterdam  
Active members of students club Cyclades, in which I was a committee member of among others: the bar, sports en introduction committees and member of the fraternity Elyson, current status: POR (Mail receiving old-member) ([Cyclades](#), Dutch).