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## General

Well motivated researcher / hacker, with good communication skills and a good sense of humor as well as a strong sense of curiosity and creativity.

## Educational background

### **2001 - 2008: Bachelor of Information and Communication Technology**

Hague University, The Hague  
Study: Informatics and information Science  
Result: Graduated as Bachelor

### **1995 - 1999: MBO vocational education**

Regional Training Center, Hengelo (OV)  
Study: ICT, office and industrial computing  
Result: Graduated

## Work experience

### **2015 - : National library of the Netherlands, The Hague**

( <https://www.kb.nl/> && <http://www.kbresearch.nl/> )

Position: Research software engineer

Activities:

- Support research in resident program
- Build maintain and expand kbresearch infrastructure
- Large scale enriching of newspapers (With links to all named entities in +/-100-mil. Newspaper-articles to DBPedia), using Surf-Sara's infrastructure
- Support researcher in resident program
- Hacking the KB-entrance system due to design-flaw in RFID-chip
- Working with SURF-Sara research cloud

Overview of methods and techniques:

- Python / Flask / Java / SOLR / ElasticSearch / R
- Prepare Surfsara Cartesius for lage scale image-recog. project
- MongoDB
- Nginx / Apache / Tomcat / uWSGI
- VMWare / OpenNebula
- Debian / Ubuntu
- Oauth / DBPedia / Stanford NER / Part of speech taggers / Google-BERT
- Work with / monitor Surfsara HPC instances on daily basis
- Explore misc. natural language software libraries and combine them

### **2014 – 2015: National library of the Netherlands, The Hague**

Position: Lab manager

Activities:

- Maintain and expand kbresearch infrastructure
- Collaborate with different groups on working with KB data (CWI / INL Leiden / misc. university digital-humanities groups)
- Maintain contacts with international library community
- Support research in resident program

Overview of methods and techniques:

- Python / Flask / py3k / Java
- MongoDB
- Nginx
- VMWare
- Debian / Ubuntu
- Oauth

### **2013 – 2014: National library of the Netherlands, The Hague**

( <http://www.succeed-project.eu> && <http://www.europeana-newspapers.eu> )

Position: Research programmer European projects

Activities:

- Develop platform to expose functionality of misc. library related tools via workflow tool  
( <http://www.digitisation.eu/european-commission-rated-excellent-succeed-project-results/> )
- Develop a branch of Stanford-Named Entity Recognition to support native library-related text-formats such as ALTO, METS, DIDL, SKOS.  
( [http://www.ifla.org/files/assets/newspapers/Geneva\\_2014/s6-neudecker\\_faber\\_wilms-en.pdf](http://www.ifla.org/files/assets/newspapers/Geneva_2014/s6-neudecker_faber_wilms-en.pdf) )

### **2011 – 2012: Fox-IT, Delft**

( <https://www.fox-it.com/nl/> && <https://www.fox-it.com/detact> )

Position: Developer/ Security Expert

Activities:

- Developing and researching DETACT, anti-fraud solution for online banking
- Due to contract restrains more details are available at request

Overview of methods and techniques:

- Scrum
- Deployment automation
- Peer code review
- Security research
- Real-time analysis of network traffic
- Due to contract restrains more details are available at request

**2008 - 2011: National library of the Netherlands, The Hague**

( <https://www.kb.nl/> )

Position: Research programmer

Activities:

- Research core search-infrastructure
- Replacing closed-source search Engine with open-source search Engine (Solr / Lucene)
- Align algorithms require linking of thesauri
- Working with text-classification (NLP) software
- Implement Linked Open Data API
- Discovering and reporting security vulnerabilities
- Maintain and set up Ubuntu system for research purposes

Overview of methods and techniques:

- XML, XPATH, XSLT, HTML, JavaScript, CSS
- Java, ANT, MAVEN, Python, Bash, Git, SVN, jQuery, Prototype
- Solr / Lucene, MongoDB, CouchDB, Nginx, Tomcat, Apache Web server
- Server management Ubuntu / VMware
- Json, Jsonp, DC, SKOS, RDFa, OAI, SRU, OpenSearch, SPARQL

**2008 - 2008: IDG Netherlands, (internship) Haarlem**

( <https://www.idg.com/> )

Function: System Management & Development.

Activities:

- Create new portfolio site for Zoom.nl
- Migration of large volumes of (JPG) images to CASTOR object storage
- Establish central log system, serving monitoring and security
- Standby first contact data center
- Webwereld.nl Computable.nl Zoom.nl Gamez.nl

Overview of methods and techniques:

- MySQL, iptables
- PHP / Zend Framework, Python, Bash, Firebug, Prototype, JQuery, CSS
- Apache Webserver
- (CERN) CASTOR storage
- RedHat, syslog, SSH, Munin

**2001 - 2008: XS4ALL Internet BV, Diemen**

( <https://www.xs4all.nl/> )

Function: Backend helpdesk

Activities:

- Helping customers with modems, ISDN, ADSL, web sites, e-mail, spam, life the universe and everything
- Making courses/training for first line helpdesk
- Indexing of the intranet, ht-dig patch for SSL support
- Share knowledge with college

Overview of methods and techniques:

- FreeBSD, Linux
- Ticketing System RT
- Radius, Low-level ADSL line analyzers, VOIP, UMTS, WIFI
- Analyze, recognize and reporting of network and software related issues

**1999 - 2000: Stone-IT, Linux for business, Utrecht**

( <https://nl.linkedin.com/company/stone-it> )

Function: Linux consultant

Activities:

- Install and configure Linux machines for small business
- SMTP / install ISDN solution
- Make hosting-provider hacker free up and manageable

Overview of methods and techniques:

- Sendmail, Bind
- SUSE, Redhat, Debian, Mandrake, Slackware, Gentoo, Free-BSD, Open-BSD
- Shell scripting, Iptables
- ISDN, DNS, Apache web server, PHP, Bash

**1999 - 1999: Ingram Micro NV (internship), Nieuwegein**

( <http://www.ingrammicro.com/> )

Activities :

- Implement of sales interface link between mainframe and internet.

Overview of methods and techniques:

- Token Ring
- IBM Mainframe
- Lucent Definity phone systems
- Mysql, PHP, Slackware, WinNT

## **1997 - 1997: Software Compad (internship), Enschede**

( <http://bakkerijsoftware.com/> )

Activities:

- BBS set up for software distribution, MS-DOS
- Interactive Course-ware program
- Making a TSR (x86-ASM) for compilation under MS-Dos

Overview of methods and techniques:

- RA-Front Door
- ASM x86, Turbo C
- Clarion for Windows 95
- SDM

## **Human languages**

Dutch, English, German (But a bit dyslectic on the side)

## **Programming Languages**

(In order of experience)

Python, Bash/shell, Java, Perl, PHP (Zend), ANSI-C, x86ASM, LUA, R, Turbo-Pascal, Ruby, MSX/GW-Basic, PLC programming and embedded, CNC programming.

Other esoteric I've tried more than once:

Cobol, TCL/TK, Haskell, Clarion, MS-Tubro-ASM, Visual Basic

## **Applications**

Gerrit code review, Jira, Solr / Lucene, ElasticSearch, Puppet, Tomcat, Jetty, Git, Svn, Nginx, Apache web server, iptables, IPFW, pygame, kivy, MySQL, SQLite, MongoDB, CouchDB, RT-Ticketing, Virtualization, Qemu, KVM, VMware, Bind9, ISC-Dhcp / Tftp / Sendmail, WireShark, Etherape, Tcpdump, NetCat, Telnet, SSH, VPN, Squid + SSL.

Microsoft MS-Dos, Office-365, Teams, MS-Office 2000, MS-Access 95, MS-Excel 95, MS-QLServer, MS-WIN-NT, XP, visual basic, Adobe 3D Studio, Blender, Gimp

Linux and \* NIX user since 1994 Slackware, SuSE, RedHat, Gentoo, Mandrake, Ubuntu, Debian, Free/Open-BSD

## **Hobby's**

Cooking, walking long distances, astronomy (huge fan of astronomycast.com), (visual) art, literature, films, theater and music, wire-up (rental) home to a bunch of raspi's and a lot of sensors and some (touch) screen's.

Helped building a hackerspace in The Hague (Revspace), active member of Pruts.nl, a closed community of IT professionals. Helped out with international Gnome conference The Hague.

# Code/Papers/Demo

<https://github.com/WillemJan>

<https://lab.kb.nl/person/willem-jan-faber>

<https://scholar.google.com/scholar?q=%22willem+jan+faber%22>

<https://www.youtube.com/watch?v=J5mCem-hEMg>