

# Curriculum Vitae

## Contact Information

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## Education

2009-2011: Master Parallel Distributed Computer Systems, Vrije Universiteit A'dam (avg: 8.3)  
2008-2009: Hogeschool Utrecht Honours programme  
2006: Propedeuse Bachelor Informatics  
2005-2009: Bachelor Informatics, Hogeschool Utrecht (cum laude, avg: 8.4)  
2000-2005: Higher General Secondary Education, Minkema College

## Employment

2011-now: Performance Engineer at Rabobank  
2010-2011: Developer at SMARTPosition BV, Utrecht  
2009-2010: Open Source Consultant at Industrial TSI, Nieuwegein  
2007-2008: Traineeship at LogicaCMG in Rotterdam  
2006-2007: System administrator of Linux server at Hogeschool Utrecht  
2007: Assistent Java Programming at Hogeschool Utrecht  
2006-2007: Assistent Web Design at Hogeschool Utrecht

## Skills and qualifications

- Advanced skills and experience with C/C++, Java, PHP, Bash and x86/amd64 Assembly.
- Basic knowledge of Android, iOS, AIR, .NET, C#, Perl, Python and LaTeX.
- Knowledge of UNIX systems internals, including various GNU/Linux systems, FreeBSD, MINIX, NetBSD, OpenBSD and FreeNOS.
- Experience with various virtualization platforms, such as Xen, VMWare, Bochs, Qemu, kvm, VirtualBox and Amazon EC2.
- Capable of administrating various open source solutions, like OpenSSH, MySQL, Apache, Subversion, Samba, OpenLDAP, Bacula, Zarafa, OTRS, Nagios, SugarCRM and Postfix.
- Skilled in building top quality web applications using (X)HTML, XML, CSS, Javascript, MySQL, PHP, Perl/CGI, Servlets/JSP, GIMP and Photoshop.
- Ability to secure networks, data, computer systems and software.
- Understanding of internet protocols, networking, encryption, and x86/amd64 (kernel) internals.
- Modelling software and databases in UML and ERD.
- Fluent in Dutch and English, basics of French and German.

## Projects

- 2011: Started my company "Linnensoft", where I develop mobile games with Box2D for all major platforms, including Android, iOS and Blackberry.
- 2011: My PDCS master project is about porting MINIX3 to the Intel Single Chip Cloud Computer, an experimental new architecture aimed at scaling multicore systems to hundreds to thousands of cores on a single chip.
- 2011: Published an Android puzzle game called Plumber which has currently over 1.5 million downloads.
- 2010-2011: Implemented journaling support for the MINIX filesystem, based on previous work done by Stephen Tweedie on ext3fs for Linux.
- 2010: As part of the Computer Networks Practical course at the VU I wrote a TCP/IP implementation for MINIX.
- 2009-2010: Wrote a driver for the Intel Pro 1000 Gigabit Ethernet adapter on the MINIX operating system.
- 2009: My graduate project involves implementing a distributed, highly scalable database on XtremOS, supervised by Guillaume Pierre.
- 2008-now: As of summer 2008, I am developing an operating system. Thanks to this project, I have learned a lot about everything involved with kernel development. See my homepage and <http://www.FreeNOS.org>.
- 2008: Developed a PHP application for my dad and his colleagues at HP, which displays an overview of available machines on their network for administrative purposes.
- 2008: Developed the HUbuntu Linux distribution (a HULK project), together with Coen Bijlsma and Mattijs Hoitink. Also see <http://www.hubuntu.nl>.
- 2007-2009: Member and co-founder of the Hogeschool Utrecht Linux Kennisgroep (HULK). I am involved with several HULK projects, including system administration and development. Visit <http://www.hunix.nl/> for more information.
- 2007-2008: Started my own open source project, a IRC daemon called Rhino IRCD. (<http://sf.net/projects/rhino-ircd>)
- 2007: FreeRadius WiFi project with Rein Kamphuis, which was used to access a highly encrypted 802.11i wireless network with EAP-TTLS support. I also helped them configure their VNC servers.
- 2006: Designed a website for Theo Miltenburg's driving school (<http://www.rijsschoolmiltenburg.nl>)

## Interests and hobbies

Computing, reading, security, yoga, meditation, kung fu, bodybuilding, latin dancing, fitness, nintendo