

Dirk Jagdmann

Contact

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Employment

May 2017 – present Linux developer at [Akamai Technologies](#), Santa Clara, CA

Feb 2010 – Apr 2017 Linux developer at [Riverbed Technology](#), Sunnyvale, CA

- Worked on the SteelFusion product, mainly on the [iSCSI](#) protocol implementation and the new [NFS](#) (Network File System) feature. Developing multi-threaded Linux C++ source code.
- Worked on [Microsoft Exchange](#) optimization of the SteelHead appliance ([MAPI](#) protocol). Implemented support for Outlook Anywhere (RPC over HTTP). Developing a heavily multi-threaded Linux C++ application to handle thousands of MAPI TCP connections and apply optimization techniques to them.
- Maintained the Riverbed internal version of [Wireshark](#) (implemented in C). Changes to HTTP, SSL, DCE/RPC and MAPI dissectors. Implemented new dissectors for Riverbed internal protocols. Working on Linux, Windows and OsX.

Oct 2007 – Dec 2009 Lead Linux developer at [NeoCatena Networks Inc](#), Sunnyvale, CA

- Architected and implemented the [RF-Wall](#) product, a [RFID](#) security appliance. The RF-Wall system is a collection of server processes interfacing RFID readers, evaluating and possibly manipulating RFID tags as they are handled by the readers. Written in C++ and using [PostgreSQL](#) as data storage. The appliance uses several TCP and UDP network protocols to interface readers and backend systems.

Sep 2005 – Jul 2007 Lead [FreeBSD](#) developer at [Secion GmbH](#) working on software for [Arcor/Vodafone](#), Hamburg, Germany

- Development of a [DynDNS](#) System in a high-availability setup: [mod_perl](#) front end, [PostgreSQL](#) data storage, dynamically configured [bind](#) nameservers.
- Architected a high-volume download platform for voice mail. This is a high-availability system of 15+ nodes in multiple locations, communicating with XML over HTTP requests, converting [A-law PCM](#) to MP3, utilizing large [NFS](#) storage. Implemented as [perl](#) and C++ server programs.
- Installation and maintenance of web, FTP and mail servers with FreeBSD.

Jul 2003 – Aug 2005 Linux software developer at [DN-Systems GmbH](#), Hildesheim, Germany

- Implementation of a web-application for medical services accounting with [perl](#), [PostgreSQL](#) running under Linux and mobile data entry with [iPAQ](#) PDAs and pc-card [smartcard](#) reader.
- Maintained and improved the [RFDump](#) tool, a [RFID](#) security program for Linux written in [GTK](#) and C.
- Development of an [OVAL](#) to [NASL](#) proof-of-concept compiler using a [XLST](#) processor as the XML compiler.

Employment (cont)

Jul 1998 – Jul 2001 Linux administrator and software developer at [Reese-Data-Exchange](#), Hamburg, Germany

- Installation and maintenance of web, FTP and mail-servers.
- Development of web-applications with [perl](#) and [PostgreSQL](#): real estate sales portal for a local bank, online-shopping sites.

All employments required developing Makefiles and shell scripts to build and deploy the applications. I have used CVS, SVN, Perforce and GIT version control. Debugging with gdb, the Visual Studio debugger or by inserting loads of syslog messages to track program execution is part of my daily routine. Writing unit tests and working in a continuous integration environment is second nature to me. I like participating in the full circle of software development; designing a feature from scratch, writing the source code, testing the solution and finally shipping it to customers.

Education

Sep 1997 – Aug 2005

[Hamburg University of Applied Sciences](#)

Diplom (FH) (\approx bachelor's degree) in [Computer Science](#).

Skills

C/C++ development, [perl](#) Development.

[PostgreSQL](#) and PL/pgSQL.

network development: TCP/IP, HTTP, MAPI, DCE/RPC, UDP (broad/multicast).

Linux/FreeBSD development and operating system customization.

Website/Webservice Development.

Hardware drivers, Linux kernel and similar tasks.

Contributions to Free Software Projects

[Wireshark](#)

Network protocol analyzer, changes mainly to HTTP, SSL and DCE/RPC dissectors.

[srm](#)

Secure file deletion for POSIX systems.

[few](#)

program to interactively filter log files with regular expressions and show the results on the text mode console (terminal).

[pg_trompe](#)

Multi-Master replication for [PostgreSQL](#).

[multimicast](#)

Transmits and receives MIDI data via UDP multicast on the LAN.

Websites

<http://llg.cubic.org/>

Website containing free software developed by me.

<http://dirk.jagdmann.de/>

Personal website concerning professional topics.

<http://www.cubic.org/~doj/>

Personal website for general computer related topics.

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