

Dirk Jagdmann

Contact

Address 1750 Halford Ave #115 Phone Email
Santa Clara, CA 95051 415-830-6442 doj@cubic.org

Employment

- Feb 2010 – present Linux developer at [Riverbed Technology](#), Sunnyvale, CA
- Working 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.
 - Maintaining the Riverbed internal version of [Wireshark](#) (implemented in C). Developing new features/protocols for Linux and Windows.
- 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.
 - Programmed the GTK-Installer of the Linux [Security Local Auditing Daemon V2](#).
 - Designed a test-suite for email server load tests as Linux [perl](#) scripts.
 - 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 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.

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 (protocol) Development: TCP/IP, HTTP, MAPI, DCE/RPC, UDP (broad-/multicast)

Linux/FreeBSD development, administration and operating system customization

Website/Webservice Development

Hardware drivers, Linux kernel and similar tasks

Contributions to Free Software Projects

[Wireshark](#) The most advanced open source network protocol analyzer.

[dmx4linux](#) Driver suite for DMX lighting devices for Linux.

[Catweasel linux driver](#) Linux driver for the Catweasel MK3/4 floppy controller.

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

[multimidicast](#) Transmits and receives MIDI data via multicast on the LAN.

[srm](#) Secure file deletion for POSIX systems.

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.

This résumé was generated by L^AT_EX on November 14, 2011