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projects before 2005	https://www.jankratochvil.net/project/
resume	https://www.jankratochvil.net/resume/
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Fulltime Jobs

Date	Company	Description
2021-...	Barclays	Software development in C++17.
2006-2021	Red Hat	<p>LLDB debugger developer and formerly GDB debugger developer. GDB developed primarily 2007-2013, 1231 commits: log.</p> <p>I was GDB maintainer for Fedora&RHEL. Larger features I have implemented: PIE support, DWARF-5 entry values & tail calls, Fortran modules, DWARF-5 excl. DWO incl. .debug_names index producer & consumer excl. namespaces. Implemented in Fedora but never upstreamed: C&Fortran VLA, build-id.</p> <p>LLDB developed 2017-2021, 159 commits: log, reviews.</p> <p>Developed Linux kernel ptrace testsuite (most of the testcases are mine). My presentations about GDB: 2011 2012 2017</p> <p>My presentation about LLDB: 2019</p> <p>My article about LLVM/Sanitizers: 2021</p> <p>My DWARF standard clarifications: 1 2 3 4 5 6, extensions: 1, 2, fix: 1.</p> <p>My LLDB buildbot, its implementation.</p> <p>Completed RHCE certificate 110-518-099.</p> <p>Wrote many bugfixes and bugreports for various components of Fedora Free operating system.</p>
2005	VA Linux Systems Japan	Linux kernel – first ever Linux kernel relocatability for kdump -like, NFS (Network File System) server caching
2004	Sun Microsystems	Sun Java Enterprise System Quality Assurance (JES QA), technical lead

Freelance Projects

Date	Description
2002-2003	<p>Captive: The first free NTFS read/write filesystem for Linux OS</p> <p>Featured on slashdot.</p> <p>Reverse engineered i386 MS-Windows XP kernel and ntfs.sys for the first binary compatible reimplementaion of the undocumented parts of MS-Windows kernel subsystems.</p> <p>Userland part of the project provides GnomeVFS interface to the MS-Windows kernel based MS-Windows filesystem isolated by the CORBA/ORBit interface.</p> <p>For development purposes I implemented also TraceFS: MS-Windows Kernel API Tracer as a native MS-Windows kernel driver for tracing of the NT Cache Manager.</p>
2005-2006	MMS2 : Alternative center for cheaper mobile phones multimedia messages (MMS)
2004	HotelGate : Internet gateway for hotel guests

Contractor Jobs

Date	Client	Description
2001-2002	Advanced Telecom Services	Early cell phone technologies: MMS framework development incl. MMS Center debugging (written using Perl , XML , SOAP), Multimedia EMS support (my GSM::SMS patch), BIP (Nokia CIMD2 alike) protocol client by extending (gnokii).
1999-2000	SuSE	Partition Surprise : superseded by GParted It was implemented by multiple people of our team. For development purposes I implemented Int13Sniff for bootability troubleshooting.
2001-2002	ReadyNote	Early cell phone technologies: debugged gnokii GSM software modem, ported gnokii and my mdsms to embedded uClibc .
1999-2003	JKLabs	Support of company systems, hotel installations, technical challenges like an i386 IRQ redirector, Middleman port (HTTP modifying proxy) or ssht (SSH tunnel).
2001	GTS	tac_plus auth : Cisco TACACS+ NAS host based authorization
1998-1999	Geoinvest	Early cell phone technologies – Siemens M1 GSM modem daemon for GPS, embedded devices – 332: AmigaOS kernel port to embedded Motorola 68332 .
1999	TENcom Trade	Early cell phone technologies – mdsms: SMS software for Digital UNIX .
1998	ELSA	STEP : A web database application. Fixed Free Software PHP and PostgreSQL .
1993-1996	Profes J&K	PC assembly and customer service
1993	Japhila	StampMan: Database application (MS-DOS: Pascal, plainTeX)

Awards

1997	Bronze medal (not 3rd) in International Olympiad in Informatics, South Africa – Cape Town
1997	2nd in MO-P national contest – mathematics Olympiad, the programming category
1997	1st in International Competition in Programming
1996	4th in International Competition in Programming
1995	7th in Central European Olympiad in Informatics

Technologies (mostly obsolete in 2021)

Platforms	Linux OS/i386/FreeBSD, MS-Windows i386 kernel, Amiga/680x0, MS-DOS, ZX Spectrum, PC-E500S
Languages	C++14, C, Perl, Python, bash/awk/sed..., Java \leq 1.0, Pascal, Basic, REXX, S-Lang, Foxplus, Prolog
Tools	GIT, cmake, SVN, autoconf, automake, libtool, m4, CVS, gettext, bison, flex, ld script
Assemblers	i386/x86_64, briefly aarch64/arm7/s390x/ppc64, Motorola 680x0, Zilog Z80, Intel 8051, MIPS R2/3000
WWW	HTML \leq 4.0, CSS, PHP, SQL (PostgreSQL, MySQL), JavaScript, CGI
Documentation	plainTeX, LaTeX, DocBook, DocBook Lite, XML/NS/Schema, gtk-doc, nroff, pod
Libraries	Gnome/GTK+/GLib, POSIX/BSD/SysV/threads/sockets, X11, OpenGL, NCurses, S-Lang, GnomeVFS, libxml, libneon, SVGALib, NIS, Qt, CORBA/ORBit, SOAP, WSDL, Sun RPC
Protocols/Formats	GSM SMS/PDU/Nokia Smart Messaging/EMS/WAP/WTP/WSP/MMSE/SMIL, WML/AMR/WSP/AMR, GSM ETSI/3GPP stds, IPv4, HTTP, SMTP RFC822/MIME, FTP, SSH, DHCP, POP3, IMAP4, NFS v2/v3, PPP/LCP/IPCP, ext2, FAT, AmigaFFS, ISO-9660