

Name	Jan Kratochvil
English	technical: fluent, general: communicable
Born	1979
Sex	male
Licenses	motorcycle, car
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Projects	http://www.jankratochvil.net/project/
Resume	http://www.jankratochvil.net/resume/
OpenPGP	pub 1024D/44FC7632 2002-10-07 Jan Kratochvil < pgp-44FC7632@jankratochvil.net > sub 2048g/D9F5F44B 2002-10-07 [expires 2004-10-06]

Contractor Jobs

Date	Client	Description
2002-2003	– (freelance project)	<p>Captive: The first free NTFS read/write filesystem for GNU/Linux (14 months) Featured on slashdot.</p> <p>Project required analysing portions of 80MB+ i386 disassembly dumps of MS-Windows XP kernel and ntfs.sys to achieve the first binary compatible reimplementation of the required undocumented XP kernel subsystems.</p> <p>Written TraceFS: Microsoft Windows Kernel API Tracer as native W32 kernel hooking driver for run-time analysis of the NT Cache Manager XP kernel subsystem.</p> <p>GNU/Linux part required integration and extensions of LUFS (Linux Userland File System) to transparently connect the UNIX userland based MS-Windows kernel filesystem isolated by the CORBA/ORBit interface.</p>
2001-2002	Advanced Telecom Services	<p>Mobile technologies</p> <ul style="list-style-type: none"> • MMS framework client via EuroTel GSM operator by technologies GSM MMS, Perl, XML, SOAP (3 months, still maintained) • Project included pilot MMS Center debugging with Ethereal (external link), fixes of Ethereal (1, 2). • Multimedia EMS support implemented by GSM::SMS patch • Implementation of protocol BIP (based on Nokia CIMD2 protocol) for GSM SMS Center direct communication by extending gnokii (external link) for EuroTel GSM operator (still in use)
1999-2000	SuSE	<p>Partition Surprise: GPLed Partition Magic clone (15 months)</p> <p>Project was completed as a team work. The code is based on Gnome technologies. As one of the subtasks to keep system bootability I implemented Int13Sniff to ease Microsoft boot loaders disassembly across partition modifications.</p>
2001-2002	ReadyNote	<p>Mobile technologies for embedded devices</p> <ul style="list-style-type: none"> • Completed debugging of gnokii (external link) GSM software modem for Nokia 5190 • Port of gnokii and my mdsms (Mobile Device SMS Tool) to embedded uClinux (external link)
1999-2003	JKLabs	<p>System administration of GNU/Linux and FreeBSD, techsupport: GuestNET, Eclipse, GloboLoop, Fresco</p> <p>Ad hoc technical support challenges such as i386 IRQ redirector, Middleman port (HTTP proxy ported to FreeBSD) or ssht (Unattended intranet host accessibility by SSH tunnel).</p>

Contractor Jobs (continued)

Date	Client	Description
2001	GTS	tac.plus auth : Cisco TACACS+ NAS host based authorization (3 months)
1999	Unicom	Technical translations from English
1998-1999	Geoinvest	Mobile technologies, embedded devices <ul style="list-style-type: none"> • 332: AmigaOS kernel port to embedded Motorola 68332 • Siemens M1 GSM modem daemon for GPS, client/server setup, remote GSM terminals
1999	TENcom Trade	Mobile technologies <ul style="list-style-type: none"> • MobilDock SMS Tool: SMS communication software for Digital UNIX (2 months)
1998	European Law Students' Association	STEP : Custom web database application, requirement for fixes of PHP and PostgreSQL
1993-1996	Profes J&K	PC assembly and customer service
1993	Japhila	StampMan: Database application (MS-DOS: Pascal, plainTeX)

For referees e-mails please see: <http://www.jankratochvil.net/resume/>

Awards

1997	Bronze medal in the International Olympiad in Informatics, South Africa – Cape Town
1997	2nd in an MO-P national contest – mathematics Olympiad, the programming category
1997	1st in the International Competition in Programming
1996	4th in the International Competition in Programming
1995	7th in the Central European Olympiad in Informatics

Experience Summary

Major Areas	mobile technologies, filesystems, embedded devices
Platforms	GNU/Linux/i386/UNIX/FreeBSD, W32 kernel, Amiga/680x0, MS-DOS, ZX Spectrum, handheld PC-E500S
Languages	C (Gnome/GCC), Perl, bash/awk/sed..., Java, C++, Pascal, Basic, REXX, S-Lang, Foxplus, Prolog
Tools/Metalanguages	autoconf, automake, libtool, m4, CVS, gettext, bison, flex, ld script, gdb script, Maple V
Assemblers	i386, Motorola 680x0, Zilog Z80, Intel 8051, MIPS R2/3000, (Hitachi SH-8)
WWW-Related	(X)HTML, 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, SVGALib, NIS, Qt,...
RPC	CORBA/ORBit, SOAP, WSDL, Sun RPC
Protocols	GSM SMS/PDU/Nokia Smart Messaging/EMS/MMS/SMIL/WAP/WSP/AMR, GSM ETSI/3GPP stds, IPv4, HTTP, SMTP/RFC822/MIME, FTP, SSH, DHCP, POP3, NFSv2, PPP/LCP/IPCP,...
Filesystems	ext2, FAT, AmigaFFS, ISO-9660