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|----------|---|
| Name     | Jan Kratochvil  |
| English  | technical: fluent, general: communicable  |
| Born     | 1979  |
| Sex      | male  |
| eMail    | <a href="mailto:job@jankratochvil.net">job@jankratochvil.net</a>                          |
| Projects | <a href="http://www.jankratochvil.net/project/">http://www.jankratochvil.net/project/</a> |
| Resume   | <a href="http://www.jankratochvil.net/resume/">http://www.jankratochvil.net/resume/</a>   |
| OpenPGP  | 4D2089DB  |

#### Fulltime Jobs

| Date        | Company                                | Description   |
|-------------|--|---|
| 2006/07-... | <a href="#">Red Hat</a>                | GNU Compiler Tools development: primarily <a href="#">GDB</a>   |
| 2005/04-11  | <a href="#">VA Linux Systems Japan</a> | <a href="#">Linux kernel</a> based development  |
| 2004/01-11  | <a href="#">Sun Microsystems</a>       | <a href="#">Java Enterprise System</a> Quality Assurance (JES QA), technical lead<br>JES components compatibility analysis, automation of QA tasks, JES testing, QA frameworks pilot deployments, architecture and lead of the team projects, team programming guidelines |

#### Freelance Commercial Projects

| Date      | Description   |
|-----------|---|
| 2005-2006 | <a href="#">MMS2</a> : Alternative center for cheaper mobile phones multimedia messages (MMS)<br>Web interface was outsourced. Commercial service management held together with JK-Invent. <ul style="list-style-type: none"> <li>• Designed to coexist with existing GSM networks service servers</li> <li>• MMSE/WAP-Push/web/mail convergency featuring smart transformations</li> <li>• Credits charging by ISDN IVR + automatic bank transaction acceptance</li> <li>• Completed mobile phones firmware bugs analysis and workarounds</li> <li>• Free gatewaying program to avoid targetted GSM operators firewalling</li> </ul>           |
| 2004      | <a href="#">HotelGate</a> : Internet Public Access Gateway<br>Plug&Play TCP/IP for clients, selectively ticketed and/or free access, simplified interface for reception desks, easy management. European facility installations provided by <a href="#">JK Labs</a> .   |
| 2002-2003 | <a href="#">Captive</a> : The first free NTFS read/write filesystem for GNU/Linux<br>Featured <a href="#">on slashdot</a> .<br>Analysis of portions of 80MB+ i386 disassembly dumps of MS-Windows XP kernel and ntfs.sys for the first binary compatible reimplementaion of the undocumented XP kernel subsystems.<br>Written <a href="#">TraceFS</a> : MS-Windows Kernel API Tracer as native W32 kernel hooking driver for run-time analysis of the NT Cache Manager XP kernel subsystem.<br>UNIX userland of Captive provides GnomeVFS interface to the MS-Windows kernel based MS-Windows filesystem isolated by the CORBA/ORBit interface. |

#### Contractor Jobs

| Date      | Client                                    | Description  |
|-----------|---|--|
| 2001-2002 | <a href="#">Advanced Telecom Services</a> | Mobile technologies <ul style="list-style-type: none"> <li>• MMS framework client and <a href="#">pilot MMS Center debugging</a> via EuroTel GSM operator by technologies GSM MMS, Perl, XML, SOAP</li> <li>• Multimedia EMS support implemented by <a href="#">GSM::SMS patch</a></li> <li>• Implementation of protocol BIP (based on Nokia CIMD2 protocol) for GSM SMS Center direct communication by extending gnokii (<a href="#">external link</a>) for EuroTel GSM operator</li> </ul> |

### Contractor Jobs (continued)

| Date      | Client                       | Description  |
|-----------|------------------------------|--|
| 1999-2000 | <a href="#">SuSE</a>         | <b>Partition Surprise:</b> GPLed Partition Magic clone<br>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 <a href="#">Int13Sniff</a> to ease Microsoft boot loaders disassembly across partition modifications.   |
| 2001-2002 | <a href="#">ReadyNote</a>    | Mobile technologies for embedded devices <ul style="list-style-type: none"> <li>• Debugged gnokii (<a href="#">external link</a>) GSM software modem for Nokia 5190</li> <li>• Port of gnokii and my <a href="#">mdsms</a> (Mobile Device SMS Tool) to embedded uClinux (<a href="#">external link</a>)</li> </ul>   |
| 1999-2003 | <a href="#">JKLabs</a>       | System administration of GNU/Linux and FreeBSD, techsupport: <a href="#">GuestNET</a> , <a href="#">Eclipse</a> , <a href="#">GloboLoop</a> , <a href="#">Fresco</a><br>Ad hoc technical support challenges such as i386 IRQ redirector, <a href="#">Middleman port</a> (HTTP proxy ported to FreeBSD) or <a href="#">ssht</a> (Intranet accessibility by SSH tunnel). |
| 2001      | <a href="#">GTS</a>          | <a href="#">tac_plus auth:</a> Cisco TACACS+ NAS host based authorization  |
| 1999      | <a href="#">Unicom</a>       | Technical translations from English  |
| 1998-1999 | <a href="#">Geoinvest</a>    | Mobile technologies, embedded devices <ul style="list-style-type: none"> <li>• <a href="#">332:</a> AmigaOS kernel port to embedded Motorola 68332</li> <li>• Siemens M1 GSM modem daemon for GPS, client/server setup, remote GSM terminals</li> </ul>  |
| 1999      | <a href="#">TENcom Trade</a> | Mobile technologies <ul style="list-style-type: none"> <li>• <a href="#">MobilDock SMS Tool:</a> SMS communication software for Digital UNIX</li> </ul>  |
| 1998      | <a href="#">ELSA</a>         | <b>STEP:</b> Custom web database application incl. fixes of <a href="#">PHP</a> and <a href="#">PostgreSQL</a> , for <a href="#">ELSA – European Law Students' Association</a> .   |
| 1993-1996 | Profes J&K                   | PC assembly and customer service   |
| 1993      | <a href="#">Japhila</a>      | StampMan: Database application (MS-DOS: Pascal, plainTeX)  |

### 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  |
| Assemblers          | i386/x86_64, Motorola 680x0, Zilog Z80, Intel 8051, MIPS R2/3000, (Hitachi SH-8)   |
| WWW-Related         | HTML/XHTML, 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,...   |
| RPC                 | CORBA/ORBit, SOAP, WSDL, Sun RPC   |
| Protocols           | 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,... |
| Filesystems         | ext2, FAT, AmigaFFS, ISO-9660  |
| Certificates        | <a href="#">RHCE 805008572734652</a>   |