Norayr Chilingaryan

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http://www.geocities.com/n0rayr
http://norayr.livejournal.com
http://www.youtube.com/norayr

Education

1994-1998   State Engineering University of Armenia
            Computer Systems and Informatics Department
            Calculating Systems and Technical Means of Networks (Bachelor Degree in
            Engineering, 4 years)
1984-1994   School N 176, Yerevan

Job experience:

2007-present
            Institute of Computer Systems, ETH Zurich
            Assistant in Native Systems group
            * Ported and modified latest Niklaus Wirth's Oberon compiler to Linux/I386
                compiler produces assembly code with AT&T syntax for GNU asssemlber.
                Comparable with gcc by genereated code speed, much better in terms of
                size and memory.
                Generates kernel calls by default, no libc dependency
                can interface to external libraries, supports c calling convention
                optional garbage collection support
                my own extention to the language standatd – possibility to manually free
                memory
            * Ported Oberon crosscompilers for Atmel AVR to run on Linux, Windows,
            FreeBSD, OpenBSD, Solaris (instead of AOS Bluebottle)
            * Making port of my compiler version also to other unixes: FreeBSD, Solaris
            * Making 64bit version of compiler
2008
            VSETH (student's community of ETH)
            System and network administrator,
            board member

2004-2007
            Lycos CJSC, Lycos-Europe Armenian Branch
            Senior System and Network Engineer / Development Environment Support Team
            in Software Architecture and QA Department
            * Prepared standard of development environment
            * Consulting developers in Linux and Unix system programming
            * Hacking & patching software, particularly apache and spread
            * Providing technical support for development teams
            * Administering development network with more than 80 Unix servers
            * Maintaining debian apt archive mirror
            * Many research works
            * Porting search software from Tru64 to Linux

2004   Technology Management Centre of Yerevan Municipality
            System Administrator
            * Unix (FreeBSD) servers administration, in particularly:

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           tuning dns, web, mail, samba, ftp, proxy, ntp servers, traffic shapers
           routing setup.
           * Very secure network creation with virtualization (jail), and all servers
           except gateway with private, not real ip addresses.
           * Monitoring setup with nagios. At that time nagios setup under FreeBSD wasn't
           trivial and needed hacks
           *  Yerevan Municipality network and information area
           plan - concept and implementation.




 2003      American Red Cross, Armenian Red Cross Society
 (summer)   Integrated Management of Children Illnesses
           Video Editing Director
           I was studying in Dubna at that time,
           but made this work in Yerevan during holidays.


 2002-2004 'Informsvyaz' Internet provider, Dubna, Russia
           www.telex221.ru
           Technical Director
           * Creating complete working ISP from scratch.
           ISP services: DSL leased lines and dial-up access, mail, hosting, snmp.
           Antivirus on mail server configuration with sendmail and AVK.
           Dial-up configuration with ppp + radius, and rasadmin, russian commercial
     product.
           * Writing documentation of project and howto's, some of them
           produced as a book for novice system administrators
           http://freenet.am/~chnorik/linux.zip
           Servers running Red Hat Linux, Gentoo Linux, OpenBSD.


 2000-2002 Int@rnet ISP, Yerevan, Armenia
           System administrator
           * Ascend, Patton dial-up access servers configuration
           * Getting first big experience in configuring base unix servers like
           mail, web, dns, proxies, routers, firewalls, snmp.. more...
           All servers was running Red Hat Linux.
           * Work with leased line (DSL) and dial-up clients
           * configuring Aironet Arlan radio modems
           * Quick reconstruction of networks, when it necessary because of
           other company work strategy oriented to kill all voice ip service providers.
           * Making security audit of web software.


 1998-2000 Armenian National Army
           Air-defence officer, KC-19 platoon commander
           Combat training of platoon, caclulations of settings for canons,
           manoeuvres, work on real firing positions at Armenia border


 1996-1998 Noyan-Tapan TV
           Video commercials director, creative director.
           Created approx 40 video commercials and bring the firm many orders
           because of produced commercials good quality
           Participating video production and directing courses.
           4 short movies


 1996-1998 Ar TV
           Director. First video commercial, first music clip.
           Good works: "4 paws" film with 12 starring dogs.
           'Vote!' clip about 1998 y. elections of RA president.
           This one was so good, that 'Ar' TV director even called me from army
           to make a musical film about parliament elections.
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Projects:

2007   nmos6502-oo2c.sf.net
Have ported oberon-2 compiler to the number of 8 bit 6502 platforms including
Apple2, Atari, Oric Atmos, Commodores, Nintendo

2007   Port of Josef Templ's Ofront Oberon compiler to minix, and nmos 6502 platforms

2006   genfoster – debfoster like tool for Gentoo
soon should be uploaded to http://genfoster.sourceforge.net

2006   genorphan – deborphan like tool for Gentoo
deborphan is a Debian tool which shows libraries or packages
that have no packages depending on them. This tool is very useful for
cleaning system from unused packages
http://genorhan.sourceforge.net

2006   http://ept-get.sourceforge.net
ept-get install tool for Gentoo distributions.
in gentoo there are no recoursive remove of packages.
I wrote ept-get to provide apt-get like tool to gentoo users.

2006   http://epkg.sf.net epkg is Debian's dpkg like tool for Gentoo Linux

2006 http://lotta.sf.net
lotta language and compiler.

2004   "if-so" Install from sources utility for Linux
Creator and maintainer.
This Utility can recursively fetch runtime and build dependencies,
then create packages and installs them. Often used to update
RHEL servers from sources without RH subscription
For now it can be used on any rpm based distribution
Debian port is under development
More about this project at
http://if-so.sourceforge.net

2004-now   GNOME and XFCE Armenian translation project
Coordinator

2004   Mandrake Linux localisation project
Translators group inspirer, organiser and coordinator
http://www.mandrivalinux.com/l10n/hy.php3
MandrakeClub VIP member

2003-2004 Work on unix shell server canc.am
Created my own unix restricted shell "khachabash"
Created unix console chat "ch@"
Created ASCII Animator to generate pascal code with console animations.

2001-2003 hay.am project
developer and administrator
www.hay.am search engine developer.
Includes crawler, indexer, retriever, and web development.
Technologies: Object Pascal(Borland Kylix), Intraweb.
mail.hay.am free mail server
forum.hay.am was one of the first armenian forums which supports unicode.
project is frozen

Other:

2008   participating in armrobotics competition, preparing line tracing robot.
competition will take place in december

2006   Swansea Bay Film Festival.
            www.swanseafilmfestival.com
            I just put one of my films at youtube.com and it was chosen by festival
            director for participation even without any fee.
            Then it was chosen for screening at jun 3 from 154 entries.
            Now it is nominated in "International" category.
            http://www.swanseafilmfestival.com/NOMINEESPDF.htm

2004,2005   Mini Game Compo
            Participating programming competition with two nominations: 1k and 4k size
            games
            www.ffd2.com/minigame

2000-2001   NPAK Armenian Center for Contemporary Experimental Art.
            Technical advisor and creator of 2001 year Armenian pavilion for
            Modern Art Bienalle in Venice

2000   Private Look Festival.
            One of my films was chosen to finish armenian short films screening

1995-1998   German Shepherds major specialist in Armenian Kennel Club 'Aralez'
            First Armenian ShutzHund A competition, IPO trainings, handling trainings.
            I am a developer, and created very useful dogs database program for club
            in Turbo Pascal for MSDOS using TurboVision

1986-1994   During school years, I learned some Basic dialects,
            and machine code programming, firstly, because of absence of an assembler,
            directly coding in hexadecimal codes for
            Pravetz-8D (Oric Atmos clone) with nmos 6502 cpu.
            Also I had experience in assembler, C, and Pascal programming for ZX Spectrum,
            and Focal programming for BK0010-01, Atari Basic for Atari XL/XE machines,
            Mikrosha programming based on KP580 cpu (intel 8080 clone).
            Wrote veterinary expert system RETEX for Sinclair Spectrum
            based on a Bayesian methods in Basic,
            AI program "Ellochka", something like "Eliza" by Weizenbaum (1966)
            but based on a character Ellochka from
            famous in the former USSR Ilf and Petrov book (12 chairs).
            Made some experiments with talking AI programs in generally.
            Also I've been written a program for local cable tv, using Pravetz, few
            graphical editors for Pravetz and Mikrosha, some small games.
            One of my friends liked my editor more than others, he always asked me to load
            it so he can paint :)
            Experienced in hacking games to make endless life for my game character
            or to have a possibility to copy them.

    OS knowledges:

            Deep knowledge of GNU/Linux, especially big experience with:
            Gentoo, Debian, Red Hat, Ubuntu, Fedora, Suse
            on i386, x86 64 and PowerPC platforms.
            Nexenta (also known as GNU/Solaris), Debian based distribution on
            OpenSolaris kernel.
            Experience with Solaris 8 and 9, a little with Solaris 10 on x86
            Experience with FreeBSD and some experience with OpenBSD
            Experienced in win2k/2003 administration (during municipality work).
            Some experience with Macos 7.3, 8 and MacOS X 10.3 and 10.4 on a PowerPC
            I also have experience with minix1-3, Oberon System (Native Oberon),
            BlueBottle AOS (Active Object System), DOS/FreeDOS, MenuetOS,
            GEM/TOS for Atari ST, Sedoric for Oric Atmos

    Programming skills:

I prefer in development imperative, strong typed languages in the spirit of
Wirthian languages family. I also more interested in so called low level
programming, rather than in developing gui's or using managed code technologies
My favourite languages are Oberon (Ulm's Oberon System, and Oberon-2
(oo2c, Ofront compilers), because Oberon is system programming language, which
is flexible and reasonably suitable for high level programming as well

Soon I'll use my own compiler to develop standalone native applications for
Linux platforms.
Active Oberon compilers included in Active Oberon System and Native Oberon
Modula-2 (XDS compiler, GNU Modula-2)
Object Pascal (FreePascal and Kylix/Delphi compilers, PurePascal for GemDos)
ADA (gnat, aonix compilers)
Assembler for x86 (gas (GNU assembler, HLA assembler, nasm)
Assembler for PIC and Atmel AVR RISC microcontrollers
Assembler for Motorola 6502 (xa65, ca65)
Some experience with assembler for z80, learning asm for powerpc and x86_64
Compiler construction is my greatest hobby. I also very interested in
translators from one language to another.
I wrote some systems tools aimed to help system administrators and advanced
users deal with package management.
One of that tools, if-so often used by RedHat Enterprise or clone distributions
administrators to update their systems from RedHat freely provided sources.
Also I wrote few tools for Gentoo Linux package management, apt-get like one
(ept-get), deborphan like one (genorphan) and debfoster like one (genfoster).
I also wrote console chat for Unix, and unix restricted shell.
I'll upload that projects to SF when have a time.
Wrote some CGI's and Apache modules.
I started programming with Basic on an old 8-bit computers, then assembler
directly coding in machine code hexadecimal instructions
Then I started pc programming with Borland Turbo C and switched to
Borland Turbo Pascal and Delphi.
Preferring compiled languages and do not like interpreted
because of their lack of speed, and unjustified cpu and memory usage
though I am using shell(bash) often, and
planning to write translators for scripting languages.
Sure, I have experience in writing and hackng code in C, Perl also.
For example, at Lycos I have patched Apache to prevent one particular attack,
which seemd impossible to defend with existing possibilities.

Hobbies:

Filmmaking, literature, dogs, compilers, programming, operating systems,
vintage computers, cinema, humanistic psychoanalysis, ethnopsychology,
digital video, music, history, alphabets, caucasus, science

Personal information:

Creative, steady, responsible, communicative, work well individually or in team,
easy-learn, nonsmoker.