

Curriculum Vitae

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Last graduated school

Computer Science / Transilvania University (1997)

My graduation diploma

Distributed networks and task migration ([M]PVM)

Work experience

Jul 2005 – Today – **Route 66** Brasov

Project manager, programmer and system/network administrator.

- Scalable client/server applications for off-board navigation (**C**)
- Scalable distributed activation services (**C, PHP** and **SQL**)
- Server farm administration (**Linux**)
- Road traffic server programming and administration (**PHP**)
- Web statistics for activations and road traffic (**PHP** and **SQL**)
- VoIP telephony network (**Asterisk**)

Oct 2001 – Jul 2005 (**4 years**) - **Romania Data Systems** Brasov (ISP)

Project manager, programmer and system/network administrator.

- Client/server app for national wide network monitoring (**C** and **PHP**).
- Traffic control (HTB, rtnetlink) (**C**).
- Network/security modules for Linux kernel (**C**).
- Domain name server and MySQL integration (**C**).
- SNMP and graphics for cable modems level monitoring (**C** and **PHP**).
- Source control system implementation (subversion).

Sep 1997 - Oct 2001 (**4 years**) – **Deuroconsult** Brasov (ISP division)

Technical manager, sys/net administrator and programmer.

- Implementation of a Distributed User Management System using **MySQL, PHP** and **C** (low level socket and protocol handling).
- Development of the technical page (user tracking, payments, invoices, logins etc.) using **SQL, PHP** and **HTML**.
- Administration of 10 Linux servers, 1 Cisco router and other equipments farm.
- Implementation of multihoming with 2 providers using zebra on Linux and Cisco for BGP and OSPF.
- Implementation of QoS using CBQ, TBF, RED on Linux routers.
- Implementation of Differentiated Services on Linux routers.

Sep 1995 - Sep 1997 (**2 years, during studies**) - **Ecran Magazin** Brasov

- I worked in the prepress department in the DTP lab.
- I managed a Windows, Mac and Linux network (disk, printer and Internet sharing).
- I used PageMaker, Quark and Photoshop (PCs & Mac).

1993 - 1994 (**1 year, during studies**) - **Monitor Mediafax** Brasov

- I used PageMaker and Word in the prepress division.

Achievements

Several contributions to Linux kernel (accepted in mainline)
- I co-authored **sch_netem** (see kernel >= 2.6.8-rc1)
- I added **u32 nfmark match**
- See also <http://kernel.embedromix.ro/kpatches/>

Projects published on FreshMeat
<http://freshmeat.net/projects/dinouml>
<http://freshmeat.net/projects/noca/>
http://freshmeat.net/projects/sch_dup/
http://freshmeat.net/projects/sch_ooo/
http://freshmeat.net/projects/sch_log/
<http://freshmeat.net/projects/sesoma/>
<http://kernel.embedromix.ro/kpatches/>
<http://freshmeat.net/projects/pwatch/>
All freshmeat projects: <http://freshmeat.net/~catalinboie/>

Giving Linux and Solaris classes for a big international company.

Project manager of the IT division of a big Romanian health company (since 2001).

Web - Gnutella (peer-to-peer network) bridge (project done for an Italian company).

Music/bands web portal (for an Italian company).

Fake POP3 server (for an American company).

See <http://kernel.embedromix.ro/> for other projects maintained by myself.

Skills

Operating systems

Linux (since 1994) - **expert**
FreeBSD (since 2004) - **medium**
Plan9 (since 2004) - **medium**
Solaris (since 2005) - **medium**

Programming languages

C (since 1991) - **expert**
PHP (since 1999) - **expert**
Assembler - **advanced**
Java (since 2002) - **advanced**
(I always pay maximum attention to security)

Databases

PostgreSQL (since 1998) - **advanced**
MySQL (since 1999) - **advanced**
Sqlite (since 2004) - **advanced**
Berkely DB - **medium**

Web development

CGI (since 1999)
C, PHP, Perl, shell, MySQL, PostgreSQL, speed and security

HTML (since 1998)
Web design

Image processing & 3D (since 1996)
Gimp, PhotoShop, Blender

Networking

IPv4 & IPv6
Diskless workstation, NFS
Tunnels, NAT, multicast
Client/server applications
QOS (Netem, HTB, CBQ, TBF, RED)
Differentiated services
IPSec
VoIP
Policy routing, BGP, OSPF
Firewalls
P2P technology

Distributed programs & clusters

PVM
9grid

SCM

git (used for Linux kernel development and a lot of other projects)
subversion

Virtualization

user-mode-linux - building/running a lot of Linux virtual machines
qemu/bochs - emulation of different OSs
XEN - running simultaneously different OSs (paravirtualization).

Telephony

Asterisk

Teaching abilities

Linux (for beginners, middle and advanced levels)
Solaris (for beginners and middle level)

Languages

English (good)
Romanian (native language)

Personal info

I don't smoke and don't drink coffee.
Easy adaptability and integration as individual or in a team.

Hobbies

Computers
Basket-ball

Other things

I have a driver license (category B).
CV version: 2.11
You can find last version at: <http://kernel.embedromix.ro/cv/>