

Antonín Král

Date of birth: 14.05.1979

Address: Palackého 4, 26601 Beroun, Czech Republic

E-mail: A.Kral@bobek.cz

Cell phone: +420 731101860

Overview

A well educated, young, Technical Director with experience from technology startups especially in the IPTV and Computer Networks area and ambitions to explore developments and advances in this or related areas.

Education

- 03/2004 – 06/2009 **Ph.D., Czech Technical University in Prague**
Department of Mathematics, Faculty of Nuclear Sciences and Physical Engineering
Thesis topic: "Large-Scale Distributed System for Multimedia Retrieval".
- 09/1997 – 06/2003 **Master of Science (Ing.), Computer Science, Czech Technical University in Prague**
Department of Computer Science, Faculty of Electrical Engineering
Thesis topic: "Scheduling Strategies in Routers".

Work Experience

- since 12/2007 **Alnair a.s. / AlefNULA a.s. – nanguTV Platform, CTO**
Designed a distributed, high-scalable and fault tolerant platform for IPTV and VoD Services delivery. *Led preparations* of customized solutions. *Supervised and defined* the corporate processes. *Defined* corporation business strategies. *Led* development and implementation team. nangu.TV platform is based on work of ITonis Inc.
<http://nangu.tv>
- 12/2004 – 01/2009 **ITonis Inc., Technical Director and CTO**
Designed platform now aquired by Alnair and shipped as nangu.TV. *Led* installations in the customers premises. *Led and supervised* technical aspects of negotiations of cooperation in China.
<http://www.itonis.tv>
- 06/2000 – 01/2005 **T-Systems PragoNET, Designer** in department of the Network Development.
Designed IPv4 and IPv6 layer of the PragoNET's backbone. *Led* transition to support IPv6 and MPLS services into the backbone. *Supervised* AS peering and key application servers (name server, network management system servers, etc.). *Designed and supervised realization* of key customers' projects (e.g. National Trade Licences Registry, DHL Computing Center, Decentralized system for TLD .cz).
<http://www.t-systems.cz>

Academia/University Related Experience

- since 03/2004 **CERN** (European Organization for Nuclear Research), Switzerland, *Researcher*.
Participated in the experiment COMPASS namely at Central Data Recording (CDR) – the crucial part of the data processing pipeline based on distributed multi-petabyte storage. *Designed and implemented* a new job submission system for the hadron data production. *Committed* several improvements to the on-line monitoring system (COOL).
<http://www.cern.ch>, <http://wwwcompass.cern.ch>
- since 05/2005 **Brookhaven National Laboratory, USA and RIKEN, Japan, Researcher**.
Participated in the Joined Czech Group at BNL. *Contributed* to the PHENIX experiment by troubleshooting and tuning on the computational cluster management system (based on Condor) and vxWorks-based event catchers. *Proposed* optimizations of data processing and management in RIKEN.
<http://www.bnl.gov>, <http://www.riken.go.jp>
- since 10/2002 **Czech Technical University, Teacher**.
Giving lectures at the Department of Software Engineering, Faculty of Nuclear Sciences and Physical Engineering and Department of Computer Science of Faculty of Electrical Engineering. *Covered topics*: Computer networks, IP protocols, Textual Information Systems, Information Retrieval.
<http://ip.bobek.cz>
- 01/2003 – 10/2005 **CESNET** (Czech National Research and Education Network), *Researcher*.
CESNET is a member of European research network – Geant, which is similar to the Internet2. *Researcher* at the end-to-end performance and QoS group. *Designed* a distributed network performance measurement system. *Participated* in international projects LOBSTER and European research

activity JRA1.
<http://www.cesnet.cz>

- 07/2000 – 01/2005 **Czech Technical University in Prague**, Department of Computer Science, Faculty of Electrical Engineering and Computing and Information Centre of CTU.
Designed and built two independent clusters (AMD Athlon and Intel PIII) for high-performance computing (especially material simulations) and education. *Proposed and supervised* deployment of IPv6 at CTU.
- 05/2002 – 11/2004 **Student Union** of the Czech Technical University Prague, *Technical Director*.
<http://www.su.cvut.cz.cz>
- 09/2000 – 04/2003 **IEEE Student Branch** Chairman
- 11/1997 – 01/2003 **Silicon Hill**, *Chairman*.
Led the largest student campus network in Europe.
<http://www.sh.cvut.cz.cz>
- 2000 – 2002 **OpenWeekend** conference, *Founder and Chairman*
<http://www.openweekend.cz>

Other Relevant Experience

- since 10/2004 **Trusted Solutions s.r.o.**, *Founder*
Consultancy in topics related to computer science, IT with emphasis on computer networks, scalable systems, storages, software engineering and strategy.
<http://www.trusted.cz>
- since 04/2001 **Debian GNU/Linux**, *Developer*.
- 10/2004 – 05/2007 **Ministry of Informatics Czech Republic**, *Member of board of experts*.
Appointed as member of a board of experts KIVS infrastructure (Communication Infrastructure for Public Administration). *Appointed* as member of a board of experts for European Government Communication Infrastructure – IDAbc.

Personal Skills

- Management** Experience with company and team leadership. Strong addiction for finding right solutions, architectures and design. Open-minded, strategic thinker.
- Software Eng.** Experience with several software engineering methodologies, especially XP-like. Management of necessary processes – version control, issue management, release and quality management, etc.
- Networking** Ethernet, MPLS, ATM and orientation in SDH, PDH, conceptual knowledge of IPoWDM. Routers, Content Switches, VoIP gateways, Ethernet and ATM switches from Cisco Systems Inc. and other vendors. Deep understanding of IPv4 and IPv6 protocols as well as IPX, SMD etc. Complex knowledge in IP routing (BGP, OSPF, IS-IS, etc.), IP addressing, IPv6, VPN, IP security, IP Multicast, IP Multimedia and VoIP (e.g. RTP, RSVP), QoS (DiffServ, IntServ, algorithms, ...) as well as user-land protocols (such as WWW, SMTP, SNMP, IMAP, POP3, FTP, LDAP, DNS, AFS, NFS, Lustre, etc.).
- Operating Sysys.** Unix (especially Linux at the kernel level - writing drivers, patching kernel), IOS (Cisco Systems Inc.). Orientation in FreeBSD, Solaris.
- Programming** Perl, Ruby, Bash, C, C++, Assembler, Erlang, Java, SmallTalk.
- Digital Media** Deep understanding of technologies related to digital media, such as MPEG2 standards, H.264 (MPEG4 Part 10), mkv, etc.
- Language Skills** *Czech* native, *English* advanced, *German* basic.

Recognitions

- 2002 Recognition for *Superior Contributions* to the Activities of the Czechoslovakia Section IEEE

Activities and Personal Interests

photography, swimming, climbing, hiking, classical music, books, playing guitar, outdoor activities