

Gergely Riskó
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Date of birth: Budapest, December 27, 1982
Marital status: single
Hobbies: ballroom dancing, bicycling, badminton



Curriculum Vitae

Schools

2001 — 2007 : Eötvös Loránd University of Sciences, Faculty of Informatics (Budapest)
M.Sc. Degree in Software Engineering and Mathematics
Specialized in databases, computer languages and artificial intelligence

1997 — 2001 : Neumann János Secondary School of Computer Technology
High school graduation, OKJ 52 4641 03 (Computer personnel)

Teaching

September 2006 — July 2008 :
Demonstrator for a course about the UNIX environment for computer science students
(Course's lecturer: **Ákos Fóthi**)
Faculty of Informatics, ELTE
Written course notes about UNIX¹

February 2005 — July 2008 :
Demonstrator for an introductory course about programming for computer science students
(Course's lecturer: **Ákos Fóthi**)
Faculty of Informatics, ELTE
Written course notes about solutions of exercises²

January 2002 — October 2003 :
GNU/Linux system administration for undergraduate computer science students
Faculty of Science, ELTE

Contract work

August 2008 — November 2008 : **Software developer**
IQSYS, MOL

- An in-house bugtracking system with Google Web Toolkit (client side) and J2EE (Weblogic, server side)

August 2008 : **Software developer**
Quickbrowse

- New version of Quickbrowse³ for Firefox 3

2002 — 2008 : **GNU/Linux consultant for bulding and maintaing a full-fledged virtual hosting environment**
Vitalcomp Ltd.

- Domain and user management (PL/pgSQL, Bash, Java, Perl)
- Differential backup over narrow bandwidth

¹<http://www.gergely.risiko.hu/progalap1/>

²<http://www.gergely.risiko.hu/bevprog2/>

³<http://www.quickbrowse.com/>

2000 — 2007 : **Linux consultant in a project of Budapest's schools**
Twinnet Ltd.

- Automatic installation and security update of 200 GNU/Linux servers spread across Budapest

Employment

September 2006 — November 2008 : **Researcher; Software Designer**

Eötvös Loránd University of Sciences, ELTECrypt research group
Administrative contact: Péter Sziklai <sziklai@cs.elte.hu>
Technical contact: Daniel A. Nagy <nagydani@epointsystem.org>

- Design of the SecMS messaging system, an email like system with end-to-end security
- Implementation of the SecMS on J2SE (BSc⁴) and on J2ME
- Implementation and design of IOU⁵, a debt management system for the Android platform
- Integration of SecMS and the ePoint system, an anonymous, peer-to-peer, irreversible payment system (MSc⁶)

September 2005 — February 2006 : **Cooperative student; Tester; Programmer**

Nokia

- Develop an automatic test environment for 3GPP call processing servers

October 2003 — August 2004 : **System Architect; Programmer; System Administrator**

Cathaia Hungary Ltd.

- Design and partial implementation of a next generation network management system
- Local network management (GNU/Linux, AFS, LDAP, Kerberos, Subversion)

June 2002 — December 2003 : **System Programmer**

Eötvös Loránd University of Sciences, Network Services Centre

- Management of the university's main mail system, implement the virus checking of every mail message
- Install and manage the Caesar cluster⁷, a redundant UNIX login, mail, web cluster with more than 5000 users
- Create the user management system for the Caesar cluster
- Implement support for GSSAPI authentication in the neon library
- Develop the management of server consoles for 30 servers with multiple terminals over a closed network

September 2001 — June 2002 : **System Programmer**

Eötvös Loránd University of Sciences, Faculty of Informatics

- Develop an automatic installation system for Debian GNU/Linux, for fast reinstallation of workstations

1998 — 2000 : **System Administrator, Programmer**

Neumann János Secondary School of Computer Technology

- Administering three GNU/Linux servers (one of them was an Alpha), network routing
- Automatic installation of workstations (Windows NT, GNU/Linux)
- Web based management of Internet access on workstations by teachers

⁴<http://www.gergely.risiko.hu/bscthesis.en.html>

⁵<http://iou.epointsystem.org/>

⁶<http://www.gergely.risiko.hu/mscthesis.en.html>

⁷<http://www.caesar.elte.hu/>

Miscellaneous

May 2008 : **Morgan Stanley's Procontest '08⁸: 1st place, MSc thesis contest: 3rd place**

April 2004 : **Security analysis of an XMicro Linux-based router**

- Deciphered the format of the firmware image
- Disclosure and release of fixes⁹ for two backdoors

2000 — : **Debian Developer**

Software in the Public Interest, Inc.

Skills

Networking protocols, utilities :

- TCP/IP, SMTP, POP, IMAP, LDAP, Kerberos, OpenAFS, Samba, HTTP, FTP, SSH
- GNU/Linux based network management (firewall rules, bandwidth limiting), DRBD
- Telco: GSM, 3GPP, GPRS

Programming languages, technologies :

- Java, Servlet, Ant, Maven, JUnit, Echo, GWT, J2EE, JavaMail, JPA, Weblogic, Tomcat, Jetty, Winstone, Scala
- XML, DOM, JavaScript, Mozilla, Firefox extensions
- Perl, Bourne Shell, Ruby, Python, JavaScript
- C, C++, Ada, Pascal, Parallel Virtual Machine, LISP, Prolog, Clean
- CVS, Subversion, Mercurial
- PHP, PEAR, Horde

Computer architectures: ix86, MIPS, PowerPC, Alpha

Database systems: PostgreSQL (and Pg/PLSQL), Oracle (and PL/SQL), MySQL

Cryptography: OpenPGP, RC4, RSA, DSA, DH, ElGamal, MD5, SHA-1

Typography, web: L^AT_EX, T_EX, DocBook, XSL-FO, (X)HTML, CSS

Virtualization: XEN, OpenVZ, KVM

Languages: Hungarian, English

Interests

- Telecommunication, network security, cryptography
- Functional languages, artificial intelligence, scripting languages
- Free software, open source
- Teaching, training

⁸<http://www.morganstanley.com/web/unicontest/webapp/>

⁹<http://www.securitytracker.com/id?1009843>