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Employment history

- Systems Engineer, Site Reliability Engineering
Google Switzerland GmbH, Zürich (December 2014 – Present)

Responsibilities:

Maintain availability, scalability, latency, and efficiency of Google's services.
Build automation to prevent problem recurrence.
Create designs, architectures, standards and methods for large distributed systems.
Conduct periodic on call duties using a follow-the-sun model.

Education

- Ph.D. Candidate at the Department of Distributed and Dependable Systems,
Faculty of Mathematics and Physics, Charles University

Field: Software Systems

Topic: Quality of Service in Virtualized Environment

Teaching assistantship: UNIX Administration, Middleware

Thesis: Reproducible Partial-Load Experiments in Workload Colocation Analysis
(under review)

- Master's degree in Informatics (2010)
Faculty of Mathematics and Physics, Charles University

Field: Software Systems

Thesis: Read-Copy-Update for OpenSolaris

- Bachelor's degree in Informatics (2007)
Faculty of Mathematics and Physics, Charles University

Field: Programming

Thesis: Graphical support for entering a UNIX command line

Internships

- University of Lugano
Faculty of Informatics, Dynamic Analysis Group (supervised by Prof. Walter Binder)
May 2013 – November 2014, SciEx research internship
- IBM Zurich Research Laboratory
Systems Department, Energy Management Group (supervised by Dr. Lydia Y. Chen)
August 2012 – April 2013, research internship

Fields of Interest

- Operating system kernel algorithms and data structures
- Read-Copy-Update and related synchronization techniques
- Parallel algorithms and concurrent data structures
- POSIX API, multithreaded applications
- System and network administration and security

Technical and Other Skills

- Network administration
router, firewall, WiFi AP, VPN (IPSec, OpenVPN)
- Server administration
IMAP, ESMTP, HTTP, XMPP, Diaspora, PostgreSQL, Drupal; cryptography (SSL/TLS, DNSSEC and related technologies)
- Operating system configuration
Linux, Illumos/OpenIndiana, FreeBSD
- Driving License
Class B
- Music
Piano playing

Programming Languages

- Proficiency in C++, C and the POSIX API, Python, Java, shell scripting (bash, awk, sed)
- Advanced knowledge of PostgreSQL (with PL/pgSQL), R (the statistical framework)

Human Languages

- English (CAE Grade A, 2001)
- French (State Diploma (basic level), 1998)
- German (Deutsches Sprachdiplom der KMK, Stufe II, 2004)
- Czech (native)

Andrzej Podzimek