

Andreas Jaggi

Hübelistrasse 10
CH-3770 Zweisimmen
andreas.jaggi@epfl.ch
+41 (0)79 291 91 63

Objective

Contribute to an interesting project with an innovative company allowing me to prove my skills, extend my knowledge and gain more experience.

Value Offered

More than 6 years Web work experience, and a solid knowledge in Linux, Networks and Internet technologies. An extremely motivated and versatile person.

Work Experience

Freelance Web developer at Waterwave Webdesign, Thun / 2001 - Present

Planned and established standards-compliant Websites and Web applications (CMS, Onlinestore, Weblog, Community tools) using XHTML, CSS, XML-RPC, MySQL and PHP.

Developer at KIS, Swiss Federal Institute of Technology (EPFL), Lausanne / 2004 - Present

- developed Web applications and prototypes for new projects (inForm, Wiki, News-CMS)
- migrated existing projects to standards-compliant XHTML/CSS
- optimized the performance of critical PHP scripts
- improved the usability of Web applications using Web 2.0 technologies
- worked with XHTML, CSS, XML, XML-RPC, SOAP, MySQL, PHP, Python, wxPython, Shell, Smarty, PEAR, LDAP, AJAX, JavaScript, Prototype and Subversion.

Internship at NovaWave Technologies, Redwood City, California / March 2007 - September 2007

- worked on an embedded Linux system controlling a near-infrared laser: solved memory restriction problems, transformed the XHTML/CSS/JavaScript GUI and the C++/SOAP server from prototype state to a final product which was sold to Stanford University, identified and closed potential security holes, fixed various performance issues in the application design and the current implementation, introduced Python unit tests for the SOAP interface, improved the build and deployment process to allow one-click-deployments
- administrated and secured the internal network and the production webserver, setup a development server (Subversion, Trac, Debian Linux)
- did research on FPGA/software processor devices to evaluate their suitability for future products or research projects

Project Experience

Clustering using task-allocation, course project / October 2006 - February 2007

Developed a Java prototype/simulation of a threshold-based/market-based algorithm to perform clustering.

Global Sensor Network, semester project / October 2006 - February 2007

Developed applications for various embedded systems (Picotux, NSLU2 - Linux/ARM7, BTnodes - NutOS/AVR), in order to integrate new sensor nodes into GSN and to allow GSN to access sensor networks remotely over the Internet.

Broadcom 43xx Linux Driver / Summer 2005

Part of the team who developed the Linux driver for the Broadcom bcm43xx wireless chip using reverse engineered specifications. It has been included in the Linux Kernel since 2.6.17-rc2.

Compiler construction, course project / October 2005 - February 2006

Implemented in Scala a compiler (Scanner, Parser, Tree, Typer, Generator) for a simple object oriented language.



Skills

Operating Systems: Linux/Unix, Mac OS X, Windows

Programming languages: PHP, C/C++, Python, Perl, Shell, Java, wxPython, Scala

Internet languages: XHTML/HTML, CSS, JavaScript, AJAX, XML, Smarty

Databases: MySQL, Oracle, PostgreSQL

Applications: Vim, Inkscape, Gimp, Networking programs, Fireworks, OpenOffice

Development Tools: Subversion, Git, CVS, Make, Ant, various Cross-Compiling Toolchains, Trac, Bugzilla, UML, DDD, Eclipse, AWK, SED

Technologies: TCP/IP, XML-RPC, SOAP, LDAP

Education

2000 - 2003 **Bilingual Swiss Matura (German-French)**, Thun-Schadau Gymnasium

2003 - 2006 **Bachelor of Science in Computer Science**

Swiss Federal Institute of Technology Lausanne (EPFL)

2006 - Present **Master Program in Computer Science**, completion in 2009

Swiss Federal Institute of Technology Lausanne (EPFL)

Publications

Threshold-Based/Market-Based Algorithms - Clustering using task-allocation

Mirco Dotta and Andreas Jaggi, Swarm Intelligence Course Project, EPFL / 2007

Integrating new hardware components in the Global Sensor Network Framework

Semester project, LSIR, EPFL / 2007

Usability - Benutzerfreundlichkeit von Websites

Maturaarbeit, Gymnasium Thun-Schadau / 2002

Awards

2nd place in Thinkquest Swiss Web Award 2001

Languages

Swiss German: Mother tongue

English, German, French: fluent

Personal Data

Citizenship: Switzerland

Date of Birth: 22nd January 1984

References

Pierre Crevoisier: Head of DIT-PRO at EPFL, Lausanne

phone: +41 (0)21 693 49 94

email: pierre.crevoisier@epfl.ch

Hans-Jürg Jost: Director of Environmental Sensing at NovaWave, Redwood City, California

phone: +1 650 610 09 56

email: hjjost@novawavetech.com

Michael Suter: Webdesigner at Waterwave Webdesign, Thun

phone: +41 (0)78 683 53 40

email: michael.suter@waterwave.ch