

profile Jan Nieuwenhuizen

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date of birth April 28, 1968
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Goals

Share Knowledge, Create Synergy, Exceed Expectations

About



Jan writes his first programs at age 13 in 1981: Tic tac toe, Pong and a racing game on the Exidy of his physics teacher. During his final high school years, he works on bigger software projects such as a functional copy of Dino Eggs in assembly. Also during his studies Applied Physics (TU/Eindhoven) Jan keeps on programming and there he comes across the intriguing phenomenon of free software.

Near the end of his studies Jan writes several experiments with music notation software that finally spawn the renowned free software music notation package LilyPond of which he is core developer and co-founder.

Right after graduating he starts working as Software Engineer at internet startup DigiCash and continues his career at various software companies in different roles. Jan gathers extensive knowledge of Linux and free software, not in the least due to the continued development and professionalising of LilyPond.

Open Source, Free Software and GNU

In 1997 Jan is invited by Richard Stallman to join his venerable GNU project and make LilyPond part of GNU, the free and open reimplementation of Unix.

GNU LilyPond becomes unique and famous for its automated and high quality layouting and is highly praised. Talks on LilyPond are presented by Jan and other LilyPond developers at several computer music and open source conferences (LAC 2001, 2004, 2008, 2010; LSM 2003, 2010; CIM 2003; FISL 2007). The work on LilyPond has led Jan to write patches for 15+ packages in the free software stack and work with different open source communities.

Starting with SLS and Slackware Linux in 1994 and working professionally with various Linux distributions ever since, Jan has over 16 years of professional experience with IT architecture and software development, application use, integration and management and system administration. Later he also works as Software Engineer in a world wide team for Novell on Go-OO.org, the pre-LibreOffice community-friendly distribution of OpenOffice.org.

Process management, Agile methods, Team coaching

From working in different environments, from highly structured corporate software projects to internet startups and research environments, corporate open source projects and his own open source projects, Jan has gained a broad experience in software practises, procedures and processes.

As a SCRUM master (certified in 2005) and Agile team leader, Jan has found that Agile practises, especially eXtreme Programming and SCRUM fit very well with his experience from open source style of project management and they often complement each other.

It has always been a real challenge for Jan to produce exactly the software that the user or client wants and at the same time be time-efficient and create a flexible, maintainable code base. In his experience, when working with or in a team, great works can be made and most difficulties can be avoided by aptly directing attention to relationships and communication.

Roles

Team Leader/Project Manager: experience with open source (10+ years) and Agile (2+ years) project management: SCRUM and eXtreme Programming, user stories, task breakdown, burn-down graphs, generating GANTT charts, rapid prototyping, short and very short iterations (from one week to half a day), Test Driven Development (TDD), writing functional design, coding standards, steering code reviews and pair programming, handling code ownership

Process Manager: 12+ years experience writing and updating procedures from experience, scripting procedures, evolutionary process improvement, 2+ years in Agile retrospectives, changing team dynamics, team coaching and personal coaching (Avatar®, Non-violent communication)

IT Architect: 17+ years experience architecting music notation software, multitasking/multi threading, real time embedded and critical web applications

Quality Control: 10+ years making and testing software releases and regression testing, unit testing, micro testing, automated builds, version control systems

Software Engineer/System Developer: 23+ years years experience in code design, implementation, ruthless refactoring and maintenance across many languages especially: C, C++, GUILF Scheme (lisp), Java, PHP, Python. Also: font design, language design, cross-build system setup, system administration and packaging

Language Skills

English, German and Dutch (native).

Programming languages

Usually the problem area defines the most suitable programming language[s] to use. Here is a list of the most important languages that I have used:

Assembly (1984–1992), BASIC (1981–1985), Bash (1994–now), C (1992–now), C++ (1994–now), Fortran (1987–1991), Java (2001–2005), JavaScript (2000–2005), Pascal (1985–1993), PHP (2000–2001), Python (2000–now), GUILF Scheme (2000–now)

See also Language Experience on Ohloh open source statistics.

Career line

Companies

2010	Joy of Source: Freelance Open Source expert
2007–2009	Novell Inc: Software Engineer on OpenOffice.org
2005–2007	Philips Research (SES): Software Engineer, IT Architect, Quality Control Officer, Team Leader and Coach in Agile XP/SCRUM environment during CMMI-2 certification
2005	Siemens VDO: Software Engineer and initiator of change in old school

waterfall process environment

- 2005--2007** **ATOS Origin:** Software Engineer and Open Source expert
- 2001--2005** **Aspiratie webdevelopment BV:** Software Engineer, IT Architect, System Administrator, Customer Support and Helpdesk in internet startup
- 2000--2001** **Netland Internet Services BV:** Software Engineer, System Administrator, Customer Support and Helpdesk in internet startup
- 1999** **LIACS:** Researcher
- 1998--1999** **Magna Carta Chipcard Solutions BV:** Software Engineer in internet startup
- 1995--1998** **DigiCash BV:** Software Engineer, System Developer, System Administrator in internet startup

Education, trainings and courses

- 2006** Coaching for Team Leaders (Bryan Tevreden), Eindhoven Netherlands
- 2005** Experience Agile (Willem van den Ende and Rob Westgeest), Eindhoven
- 2005** Certified SCRUM master (Mike Cohn), Eindhoven
- 2004** Licenced Avatar trainer, Willingen Germany
- 1995** MSc. Applied Physics, TU/e Eindhoven

Publications

Refereed

Han-Wen Nienhuys and Jan Nieuwenhuizen, *LilyPond, a system for automated music engraving*, Proceedings of XIV Colloquium on Musical Informatics, Firenze, Italy, 2003

A.D. Schwarz-van Manen, A. F. M. Van Geloven, J. Nieuwenhuizen, J.C. Stouthart, K. Krishna Prasad and F.T.M. Nieuwstadt, *Friction velocity and virtual origin estimates for mean velocity profiles above smooth and triangular riblet surfaces*, Journal of Applied Scientific Research, vol. 50, nr 3-4, May 1993

Non-refereed

Jan Nieuwenhuizen, *LilyPond -- Running A Free Software Project*, ATOS Origin TA/IPS, KLOS 5, Veldhoven, Netherlands, 2007

Nieuwenhuizen, J.C. and Nienhuys, H.-W., *MPP, a MusixTeX PreProcessor*, The LaTeX Graphics companion, 1996

J.C. Nieuwenhuizen, *An object-oriented model for EPEP*, Master's thesis, Eindhoven University of Technology, Netherlands, 1995

References

See joyofsource.com/references.html