Jannis Pohlmann ›

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Experienced & Versatile Software Developer · Open Source Expert

Natural Leader · Excellent Communicator · Autodidact & Musician

Education

University of Lübeck, 2005 – 2011

— Diplom-Informatiker (equivalent to M.Sc.)

  Computer Science and Human Computer Interaction

  Graduated with honors (grade 1.1)

— Graduate thesis "Configurable Graph Drawing Algorithms for the TikZ Graphics

  Description Language", 2011, supervised by Prof. Dr. Till Tantau

— Undergraduate thesis "Porting the Thunar File Manager to the Extensible Asynchronous

  Virtual File System Layer GIO", 2009, supervised by Prof. Dr. Till Tantau

Philipp University of Marburg, 2004 – 2005

— Computer Science

Work Experience

Codethink Limited, January 2012 – March 2014 (Manchester, UK)
Senior Software Developer and Architect

Architect and Lead Developer / Codethink Labs

- Responsible for developing new concepts and tools for improving processes at Codethink

- Created Mustard (a lightweight requirements tracking and planning tool based on Git, YAML and

  Python web technologies), Consonant (an object-relational, cross-referenced, verifiable and service-

  oriented Git object store and corresponding web API), and python-consonant (a Consonant reference

  implementation written in Python)

Technical Lead / Automotive projects

- Introduced Codethink to GENIVI by leading one of the first GENIVI execution projects

- Lead the development of the Baserock GENIVI Baseline, now officially recognised

- Awarded GENIVI Most Valuable Contributor 2013 with Codethink

- Wrote a Java HTTP server optimised for MPEG-4/video streaming

- Successful leadership and occasional project management in several multi-customer automotive/IVI

  projects involving technologies such as systemd, Wayland, Qt and Android

Developer / Baserock Embedded Linux

- Operating system bootstrapping, x86/ARM toolchains, distributed system build, dependency graphs,

  atomic system upgrade and build traceability

- Various ARM board bring-up projects

Other roles

  — Trained new hires, from Trainees and Junior Developers to Project Managers

  — Ran job interviews to help growing the company

Institute for Theoretical Computer Science, 2007 – 2010 (Lübeck, Germany)

Student Assistant

— Implemented and evaluated image enhancement algorithms in MATLAB/C

— Researched and implemented haplotyping algorithms in a bioinformatics project

— Held weekly lecture tutorials and corrected student homework

coalesenses GmbH, 2006 – 2007 (Lübeck, Germany)

Software Developer

— Implemented parts of the iSense operating system for wireless sensor networks (a subset of the C++ STL, network routing algorithms, memory management system)

— Designed, implemented and maintained iShell, a Java application for flashing, operating and analysing wireless sensor networks based on SWT/JFace

— Wrote an AJAX/servlet driven web service for building custom iSense firmware images

Ingenieurbüro M. Tartsch, 2004 – 2006 (Warburg, Germany)

Software Developer

— Smaller development tasks such as writing a simple internationalization library and an XML key/value store in C++ as well as a tabular editor for arbitrary data sources using FXRuby

INVOLVEMENT IN OPEN SOURCE PROJECTS

Xfce Desktop Environment, 2004 – recently

— Core developer and maintainer of various core components such as the Thunar file manager, the Garcon menu library and the Xfce audio mixer, all using the GTK/GLib/D-Bus software stack

— Designed and implemented Tumbler, an extensible D-Bus thumbnail generation middleware used in Xfce, MeeGo and on the Nokia N9 smartphone

— Authored and implemented the Xfce Release Model

— Release manager for Xfce 4.8

— Developed Xfce's release management web application using Ruby/Sinatra

— Founding member and president of the Xfce Foundation

— Performed various community management and organisational tasks

— Gave talks about Xfce and Tumbler at FOSDEM 2009 and 2012

Xubuntu, 2008 – 2009

— Xubuntu Xfce Liaison, mediating between the Xubuntu distribution and Xfce

— Participated in two Ubuntu Developer Summits

Lunar Linux, 2005 – 2009

– Maintained various packages for the source based Linux distribution

– Developed and improved some of the distribution's core utilities

Other

– Ardour (an open source DAW): Rewrote the Wiimote remote control plugin for Ardour 3.0

Samples of work

Mustard

A lightweight solution for fully traceable requirements and architecture tracking and more transparent interaction with customers based on Git and modern web technologies, now used in many Codethink projects.
Source: http://github.com/CodethinkLabs/mustard

Consonant / python-consonant

An object-relational, cross-referenced, verifiable and service-oriented Git object store and corresponding web API. Named after the adjective consonant ("characterized by harmony or agreement"), reflecting its focus on a unified data model and cross-store referencing and validation. Its goal is to provide the foundation for project management, software architecture and development workflow tools to be linked together to enable full traceability from requirements to architecture, work items and tasks currently performed by developers – and back.
Specification: http://github.com/CodethinkLabs/consonant
Source: http://github.com/CodethinkLabs/python-consonant

Thunar

A lightweight and user-friendly file manager for the Linux/Xfce desktop. I maintained it for several years and replaced its virtual file system layer (ThunarVFS) with GLib's GIO in order to reduce code complexity, maintenance overhead and to add support for remote file systems like CIFS/SMB and SFTP.
Documentation: http://docs.xfce.org/xfce/thunar/start
Source: http://git.xfce.org/xfce/thunar

Tumbler

A D-Bus service providing desktop and mobile applications with a standard interface for generating thumbnails for various URI schemes and MIME types. It is an object-oriented C/Glib-based implementation of the thumbnail management D-Bus specification that I co-authored. The modular architecture of Tumbler makes it flexible and useful in many situations. It provides different schedulers as well as plugin interfaces for extending the supported URI schemes / MIME types and for replacing the thumbnail storage backend. Tumbler can also delegate thumbnail generation to other specialised D-Bus thumbnailer services. Tumbler is used in Xfce, MeeGo and on the Nokia N9 smartphone.
Source: http://git.xfce.org/xfce/tumbler
Specification: https://wiki.gnome.org/action/show/DraftSpecs/ThumbnailerSpec