



# Martin Natano

## Curriculum Vitæ

### Work Experience

- since 2012 **Software Architect, Senior Developer, Security Researcher**, *RadarServices Smart IT-Security GmbH.*, Vienna.  
Implementation of network security solutions. Research & development in the security field regarding network anomalies, behaviour analysis and statistics.
- 2015–2017 **Lead Developer**, *Ethics Commission of the Medical University of Vienna*, Vienna.  
Continuation of the original ECS project started in 2010. Adaptions to allow other ethics commissions in Austria to use the system too and other improvements.
- 2011 **System Administrator**, *Spitzauer & Partner Rechtsanwälte GmbH.*, Vienna.  
Deployment of a VOIP Solution.
- 2010–2012 **Lead Developer**, *Ethics Commission of the Medical University of Vienna*, Vienna.  
Design & Implementation of a paperless office system (ECS) suited for the needs of the Ethics Commission.
- 2009–2010 **Web Developer**, *Mjam GmbH.*, Vienna.  
Maintenance of the customer facing Django web service. Implementation of group orders and the Debian-based POS system.

### Open Source Experience

- 2016–Present **OpenBSD.**
- various cleanup in vi(1)
  - byteswap fix for UTF-8 handling code in mandoc(1)
  - bug fixes for fuse(4)
  - resolve various filesystem bugs
  - Integer width/signedness mismatch cleanup in the kernel
  - fix mishandling of some commands inside of ed scripts in patch(1)
  - co-author mknod(8) rewrite
  - improvements in the generic VFS layer
  - improve handling of ambiguous overstrike sequences in ul(1)
  - bfp(4) device cloning and fix some bugs in the generic cloning code
  - noperm mount option for FFS and MFS
  - reduce root privs during make build and release in src and xenocara
  - implement  $\{D\}$  and  $\{F\}$  variables in make(1)
  - Port of NetBSD's makefs(8) tool
  - build ramdisk images with makefs(8)

## 2013–2016 **Bitrig.**

- Fix sensor update issue in acpithinkpad(4)
- Multiline command line edit for ksh(1)s emacs mode
- Resolve issues caused by the gcc to clang conversion
- fdisk(8) usability improvements
- Hierarchical output for ps(1)
- Improve POSIX compliance of ps(1)
- libc locale handling tweaks
- TMPFS snapshots and various bug fixes
- Implement a device filesystem (devfs; not imported)
- Discovery of two shell injection vulnerabilities in the BSD patch utility (CVE 2015-1416 and CVE 2015-1418)

## Open Source Projects

adapter-interface	Generic adapter implementation for ruby	<i>Ruby, ISC</i>
DouF00	PDF Presentation Software	<i>Python &amp; C, 3-clause BSD</i>
entropy	Fast entropy calculation for binary data	<i>Python &amp; C, ISC</i>
epl	Embeddable programming language	<i>C, ISC</i>
git-orm	Object-relational mapper on top of git	<i>Python, ISC</i>
organ	Hamond organ synthesizer	<i>C, ISC</i>
passta	Simple command line password manager	<i>Python, ISC</i>
query-interface	Elegant filter syntax for requesting HTTP resources	<i>Ruby, ISC</i>
sequel_-timelined	Sequel plugin enabling copy-on-write timeline storage	<i>Ruby, ISC</i>
tiget	Command line ticket tracker	<i>Python, ISC</i>
	Also: some contributions to OpenBSD, spectrwm and taskwarrior	

## Languages

German	native
English	fluent

## Talks

2009	Snaqx: Distributed Port Scanning Framework	<i>PlumberCon</i>
2013	Implementing git-orm	<i>vienna.rb</i>
2013	Grenzen von Porters Deutsch-Stemmer	<i>University of Vienna</i>
2013	The Pythonic Universe	<i>PyLadies Vienna</i>

## Musical Education

- 1995–2007 Piano lessons at the Musical School of Vienna (Prof. Midas Forrer)  
Regular performances on stage
- 1999, 2000 Attendance at the 15th and 16th Bösendorfer International Piano Course