

## MARC BEVAND

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- Status** Date of birth: 1980/11/05. Nationality: French. Family situation: Single.  
Miscellaneous: California and European driver licenses, military service accomplished.
- Objective** A full-time position involving expertise in these fields: free and open source software, computer and network security, reverse engineering, security vulnerability research and exploitation, high-performance computing, assembly optimization (mainly AMD64 and x86), low-level programming, Linux and BSD kernels internals, operating systems design ...
- Experience**
- **Jul 2009 - Present [El Segundo, CA, USA]:** Principal Architect, Security at *Rapid7, LLC*.
  - **Jul 2007 - Jul 2009 [El Segundo, CA, USA]:** Senior Software Engineer at *Rapid7, LLC*.
  - **Sep 2005 - Jul 2007 [Torrance, CA, USA]:** Software Engineer at *Rapid7, LLC*, (developer of NeXpose, a vulnerability assessment tool sold primarily to large corporations and government agencies). Research and exploitation of security vulnerabilities, reverse engineering of Microsoft security patches and proprietary network protocols.
  - **Dec 2004 - Sep 2005 [Los Angeles, CA, USA]:** System & IT Security Engineer at *SmartJog USA Inc.* (service provider offering a platform for secure digital delivery of media content for the movie industry). Design and implementation of RBC (reliable and secure file transfer protocol), PKI deployment (multiple CAs, 500+ certs), system and network administration.
  - **Sep 2003 - Dec 2004 [Paris, France]:** System & IT Security Engineer at *SmartJog S.A.* (see above for a description of SmartJog). Linux development to secure the SmartJog platform.
  - **Mar 2003 - Sep 2003 [Issy-les-Moulineaux, France]:** 6-month internship at *SNAISO* (value added integrator). Conception of software modules to secure one of their IDS product (authentication, encryption, access permissions, etc).
  - **2002 [Le Kremlin Bicêtre, France]:** Teacher Assistant during 4 months at *Épita*. Instructed students in C language development on Unix systems.
  - **2001 [Paris, France]:** 3-month internship at *MiniSAT* (interactive TV software developer). Designed a back-office tool to manage one of their software.
  - **1999 [Issy-les-Moulineaux, France]:** 1-month internship at *WStore* (on-line computer hardware reseller). Audit of their web site.
- Education**
- Master's Degree, Information Technology; ÉPITA (*École Pour l'Informatique et les Techniques Avancées*), SRS Department (*Systèmes, Réseaux et Sécurité: System, Network and Security*), Paris, France (1998–2003).
- Skills**
- Development on platforms: GNU/Linux, OpenBSD, FreeBSD, NetBSD, Sun Solaris, Digital Unix (OSF/1), Windows, DOS.
  - Languages: C, C++, Perl, Python, AMD64/EM64T assembly, x86 assembly, Bourne shell scripting, Pascal. Smattering: Sparc assembly, Java, SQL, OCaml.
  - Assembly optimization: author of the world's fastest RC4 symmetric cipher implementation for AMD64 (+50% speedup compared to the then-current OpenSSL version), author of OpenSSL's MD5 message-digest optimized for AMD64 (+65% speedup).
  - Kernel programming: addition of a syscall to FreeBSD allowing (a)synchronous process execution, integration of an "active" link type into the OpenBSD FFS filesystem, development of a new filesystem for NetBSD.
  - Network programming: OS fingerprinting tool, ARP spoofing and TCP hijacking, miscellaneous clients and servers (FTP, NNTP, IRC, etc).
  - System programming: implementation of a shell, creation of an assembler and its associated virtual machine.
  - Unix system administration: IP networking, firewalling, NAT, DNS, DHCP, TFTP, NFS, HTTP, FTP, SSH, Samba, LFS (Linux From Scratch) systems, excellent ability to troubleshoot and debug various problems.

**Miscellaneous** Languages: French, English. I have a passion for free and open source software, astrophysic, digital electronic and Chess.

August 17, 2010