

Richard Levitte

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Summary

Over 25 years of software development, support and teaching/presentation experience, including more than 15 years with Linux/Unix, more than 12 years specialising in OpenVMS and 7 years specialising in cryptography- and PKI-related software. Over 13 years of system administration experience with a large variety of platforms. Highly motivated, creative, quality- and portability-aware, problem-solving initiator highly capable of both individual and group work. Quick learner, pedagogical and used to speaking in front of groups of people, large as well as small. Trilingual: Swedish, French and English.

Education

- Swedish drivers license since August 2001.
- Royal Institute of Technology in Stockholm, Sweden, Department of Computer Science.
- Military education as telegraphist, completed 1986.

Special interests in the field:

- Cryptography and security: technology, software and standards.
- Programming, especially when creativity is involved.
- Portability issues between major operating systems.
- Network communication and standards.
- Revision/Version control systems
- Linux.
- OpenVMS.

Skills of value

Cryptography and protocols, system design, system planing, system management, software design, software development, installation and testing of software and hardware in or out of networks, debugging and teaching.

Programming languages:

C, C++, Lisp (emacs Lisp and Common Lisp), Pascal, Perl, DCL, bash, assembler (Motorola 68K, Zilog Z80, Intel 8080, 8086, 80386, VAX, Alpha), SQL, XHTML/HTML/CSS, XML/XSL, PHP, Javascript, and more.

Natural languages:

Swedish, French and English.

Operating systems:

Linux, BSD Unix, Solaris, OpenVMS.

Hardware:

VAX and Digital networking hardware, IBM PC and clones, Sun, SCSI, miscellaneous networking and cryptographic hardware.

Software:

OpenSSL, OpenLDAP, OpenSSH, TeX/LaTeX, GNU emacs and the primary GNU developemnt tools, Bind (DNS), GnuPG/PGP, CVS, monotone, subversion, git, Apache, OSU HTTP server, sendmail, courier, MX, Kerberos and AFS tools, RT, a large number of Unix and OpenVMS development and system management tools.

Standards and protocols:

TCP/IP, DECnet, LAT, SSH, SSL/TLS, HTTP, SMTP, DNS, FTP, X.509/PKIX and related standards.

Experience

- Software Engineer** 2009 – present
OpenSSL Software Foundation, Inc
Development of OpenSSL for specific customer requests. Support of the OpenSSL FIPS module.
OpenSSL, git, Linux/Unix development suite
- Development team member** November 1999 – present
the OpenSSL development project
Contributions to the project: releasing, structuring, implementation of core routines and porting to other operating systems, with a few subproject involving interfacing external cryptography devices, user interfaces and porting to OpenVMS.
OpenSSL, CVS, Linux/Unix and OpenVMS development suite
- Owner, consultant and developer** Autumn 1991 – present
Levitte Programming
Consultancy in programming and system management, development of projects, as well as teaching and presentation of softwares and methods. Continually enhances skills as consultant, business administrator and methods, protocols and technologies involved.
- Support and Software development consultant** February 2010 – April 2012
Keyex Electronic AB
Support and development of a document handling system with fax capabilities.
PHP, Javascript, Apache2, Linux, monotone, FAX
- Consultant in software development** November 2008 – November 2009
Levitte Programming
Software development for AstraZeneca through IBM.
OpenVMS
- Software development consultant** September 2008 – summer 2009
Levitte Programming
Development of open source products for the USB security device YubiKey.
USB, YubiKey, PHP, subversion
- Development team member** October 2004 – 2009
the monotone development project
Major contributions to the project: releasing, commands, scripts.
monotone, Linux/Unix development suite
- Consultant in system administration** May 2005 – September 2008
Levitte Programming
System administration on Solaris and OpenVMS for AstraZeneca through IBM. Gained experience in system administration in a highly structured working environment and in the Solaris operating system.
Solaris, OpenVMS, ...
- Developer** September 2004 – January 2005
the Royal Institute of Technology, dept. of Parallell Computing
Enhanced OpenSSL to handle proxy certificates according to RFC 3820.
OpenSSL, monotone, Linux development suite
- Consultant in programming** Autumn 2002 – Summer 2004
Levitte Programming
Development of and around OpenSSL for the following customers: Novell, Inc.; ATOS ORIGIN Gmbh, LoS Payment Solutions; NoGUI AB / Pulsen System AB; InfraSec Sweden AB.
OpenSSL, OpenLDAP, CVS, monotone, RPM, Linux development suite

- Senior Software Engineer** July 1999 – March 2002
Celo Communications AB
 Developed SSL and PKI software based on OpenSSL, which was then sold primarily to banks and insurance companies. Improved knowledge of SSL, PKI and related standards, CVS, and source control in general. Gained additional experience in world-wide collaborative development and cryptography.
OpenSSL, Apache, sendmail, BIND, CVS, Linux development suite
- Teacher** February 1999 – September 1999
Global Knowledge Network
 Taught OpenVMS at all levels, from beginner to advanced system managers, in a technical teaching environment. Improved communication and presentation skills.
- Independent project** June 1998 – October 1999
Levitte Programming
 Developed FISH, a SSH client for OpenVMS. Obtained a deeper understanding of cryptography and SSH. Demonstrated motivation and ability to work well without supervision.
SSLey, OpenSSL, CVS, OpenVMS development suite
- Programming consultant** May 1998 – January 1999
Essnet AB
 Developed key components of Essnet's OpenVMS-based lottery systems which includes a banking/credit system. Mastered SQL.
OpenVMS development suite
- System designer and manager** June 1997 – February 1998
Gladius Production AB
 Responsible for initial design, setup, and management of the OpenVMS system environment, including postmaster, hostmaster, and extensive problem-solving. Deepened experience in system design, setup and management.
OpenVMS, TCP/IP Services, MX, OSU HTTP server, GNU emacs
- Programmer and system manager** May 1996 – October 1996
Nation Wide Publishing
 Responsible for writing CGI programs and server-side Javascript applets based on Netscape's LiveWire product and other support software. Functioned as postmaster, hostmaster and system manager. Gained experience in development of web applications.
LiveWire, GNU emacs
- Technical phone support** January 1995 – April 1996
Personal Internet
 Primary second line technical phone support person. Also functioned as postmaster, hostmaster and assisting system manager. Gained experience in customer support and relationship.
Apache HTTP Server, sendmail, BIND, GNU emacs, SSH
- Teacher** Winter 1993/1994 – May 1995
the Royal Institute of Technology
 Teaching digital and computer technology.
- Independent project** Autumn 1993 – Spring 1996
Levitte Programming
 Started the project GNU on VMS Project to group the current GNU software ports to OpenVMS. Promoted porting and maintaining of more GNU software in a consistent fashion. Gained experience as project leader and working with a group of people spread over the world.
- The major accomplishment was the port of GNU emacs version 19.18 and 19.28.
- OpenVMS, OpenVMS development suite*

Independent project

Spring 1991 – Summer 1993

Levitte Programming

Ported GNU emacs versions 18.58 and 18.59 to OpenVMS, as well as a number of GNU development and configuration tools.

*OpenVMS, OpenVMS development suite***Teacher**

Winter 1989/1990 – Winter 1990/1991

Inproa Data AB

Held three courses that focused on DOS and the programming languages C and Pascal.

*Turbo C, Turbo Pascal***System manager**

January 1989 – June 1993

the Royal Institute of Technology, dept. TTT

Responsible for a OpenVMS cluster and a dozen networked PCs. Learned advanced OpenVMS and networking and gained experience in system management.

*OpenVMS, GNU emacs, OpenVMS development suite***Programmer and PC expert**

June 1987 – December 1988

the Institution for Research in Optics

Developed software for measurement of very small vibrations with a split laser beam as well as software to produce near-ideal mirrors in metal and a few minor utilities. Gained knowledge of the PC platform and quickly earned the title PC expert".

*Turbo C, Turbo Pascal***Military Service**

September 1985 – May 1986

Telegraphy.

Consulting Programmer

June 1984 – August 1985

TvärData AB

Developed a large number of various applications and utilities. Also co-developed the product TvärFile, a full-featured terminal and serial communication application. Enhanced experience in collaborative programming skills.