

# Randall T. Whitman

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USA 909.335.0864  
(08:30-17:30 PT)

**Professional Services** Software design and implementation, as an independent contractor. Cross-platform (portable) software code, and specifically software for the GNU/Linux OS. Special interest in any software project relating to problems of a mathematical or scientific nature.

**Computer Skills** **Languages:** C, C++, Java, HTML, Perl, Lisp/Scheme, tcsh, bash, et al.  
**OS:** GNU/Linux, UNIX (Sun, DEC, IBM, HP), MS Windows, NextStep.  
**Database:** MySQL, Oracle, Unify.

**Experience** **DonorWare LLC:** *Software Developer* Redlands CA

April 2000—December 2003. Maintained core software of enterprise non-profit fundraising data management system, consisting of over 200 modules, in team of two developers. Designed new Child Information Database module, reviewed design with client, and implemented to client satisfaction. Enhanced sales and inventory system to permit multiple warehouses. Ported core software suite to MySQL RDBMS, as well as to GNU/Linux OS. <DonorWare.com>

Primarily C programming in Redhat GNU/Linux and SCO UnixWare.

**Solipsa Corporation:** *Independent Contractor* San Jose CA

November 1999—March 2000. Configured, installed, and wrote a number of custom enhancements to the Bugzilla bug-tracking system <mozilla.org/bugs>, used on the Solipsa (now Nuasis) intranet to track bugs in both Solipsa products and suppliers' products <nuasis.com>.

Primarily Perl programming in Redhat GNU/Linux.

**Freelance Web Development** Chicago IL

August 1999—October 1999. Prototyped a financial portal website. HTML with CSS per client specifications.

**Second Life Thrift Store:** *Volunteer* Redlands CA

October 1997—May 1999. Prepared used computers for sale. Researched free software for DOS on the Internet, and prepared a multi-disk install set.

Shell and C in Slackware Linux, PC upgrades, sales to store customers.

**Oracle Corporation:** *Software Developer* Redwood Shores CA

August 1994—May 1997. Maintained and enhanced a high-precision, portable, decimal-based mathematical package; specified, and implemented part of, a hash table manager; and enhanced a portable interface to native multi-threading functionality. Member of the Common Oracle Runtime Environment Development group, which provides a library of common functionality and is the basis of portability for Oracle products <oracle.com>.

Primarily C programming in UNIX (SunOS, Solaris).

**MIT Media Lab:** *Undergraduate Researcher*

Cambridge MA

February 1994—May 1994. Wrote HTML form and CGI program to automate submission of papers on Design Interaction Paradigms. C, HTML, and shell in HP UNIX.

September 1993—January 1994. Member of original development team of the fishWrap news service <fishwrap.mit.edu>, which provided personalized news and other information according to the interests of the individual. FishWrap served MIT for several years, and for some time fishWrap software also formed the engine of the publicly-available personalized news service at The Gate <www.sfgate.com/news/> (San Francisco Chronicle). C programming in UNIX.

March 1991—May 1993. Wrote programs to present personalized news on GO and Momenta portable displays after sending it by radio modem from a server. C/C++ programming in NeXTStep and MS Windows.

**Education** **Massachusetts Institute of Technology**

Cambridge MA

SB in Mathematics with Computer Science, May 1994. GPA: 4.8/5.0.

Coursework includes Software Engineering Laboratory, Artificial Intelligence, Computer Language Engineering, Theory of Computation, Algorithms, Topology, Algebra (abstract and linear), Analysis.

National Merit Scholar, High school valedictorian.

Technical Training Courses: Sun Java Developer, Oracle DBA, AltioLive.

**Languages** English (fluent), Spanish (proficient).