

Christopher J. Madsen

- Objective** A programming job working alone or as a member of a team
- Work experience** 2009 – Present Self Employed Richardson, TX
- Freelance Consultant**
- I write Perl scripts and modules under contract. [PostScript-Report](#) was released to CPAN; my other work was not suitable for CPAN release.
- 2004 – 2009 TRX Dallas, TX
- ETL Programmer**
- I wrote and maintained Perl scripts to Extract, Transform, and Load credit card and travel data from various formats into DB2 and MySQL databases. I also helped design and implement TRX's Generic File Processor framework to simplify this task.
- 1999 – 2004 Travel Technologies Group / TRX Dallas, TX
- Programmer for CoRRe and EnCoRRe**
- I helped maintain CoRRe and EnCoRRe/CORREX using Borland C++ for Windows. This involved using multiple GDS reservation systems and Oracle databases.
 - In my spare time, I rewrote our email delivery system. The existing system was a combination of C++ and a homebrewed scripting language, was slow and difficult to maintain, and had numerous bugs. My version, written in Perl, is much faster, more reliable, and is still in use.
- 1993 – 1999 Schoolhouse Software Denton, TX
- Programmer for The PC GradeBook**
- I wrote the DOS version of The PC GradeBook in C++ using Borland's Turbo Vision text-based windowing framework. I later ported it to Windows 95 using MFC, Visual C++, and the Standard Template Library.
- 1989 – 1993 Schoolhouse Software Denton, TX
- Apple II programmer for GradeBook IV**
- I completely rewrote a menu-driven gradebook from Applesoft BASIC in 6502 assembly language, and gave it a spreadsheet-style interface. I was the sole programmer and the primary designer, with input from the company owner.
- Education** 1989 – 1995 Youngstown State University Youngstown, Ohio
- Bachelor of Science, Summa cum Laude**
- Major: Computer Science Minors: Physics and mathematics GPA: 4.0
- Awards received** 2004 — TRX XCELLER Award (2nd Quarter of 2004)
- One award is given each quarter per 100 employees to recognize top-performing employees nominated by their coworkers. I received it for my work on CORREX.
- 1993 — YSU Undergraduate Award in Computer Science
- One award is given each year for outstanding academic achievement in the study of computer science.

1992 — Membership in Phi Kappa Phi

- Phi Kappa Phi was founded in 1900 to recognize and encourage superior scholarship in all academic disciplines.

1989 — National Merit Finalist

- YSU gave me an Outstanding Scholar's Award scholarship.

Open Source work My open source programs are available at my website, www.cjmweb.net.

Perl

- In 2010, I gave a talk about [PostScript-Report](#) at [YAPC::NA](#).
- In 1998, I rewrote the [Win32 IPC modules](#) (part of [libwin32](#)) to remove unnecessary code, fix an egregious bug, and remove some limitations in the API.
- In 1997, my [Getopt::Mixed](#), [Appell::Disk](#), [MSDOS::Attrib](#), [MSDOS::Descript](#), and [Tie::CPHash](#) modules were chosen to be part of [O'Reilly's Perl Resource Kit](#).
- A complete list of my Perl modules is available at <http://search.cpan.org/~cjm/>

GNU Emacs

- I rewrote the internals of the Emacs `perform-replace` function to allow the replacement to be a Lisp expression. (Someone else has provided a better UI to this feature by using `\`, in the replacement string to indicate a Lisp expression.)
- `Decipher.el`, a tool I wrote in Emacs Lisp for solving cryptogram puzzles, became part of the GNU Emacs distribution from the Free Software Foundation in 1996.

C++

- `VBinDiff` (Visual Binary Diff) is a tool for interactively comparing files at the byte level. I originally wrote it in 1996 for OS/2. I ported it to Windows and later added support for Linux (and other POSIX systems.)
- `GUEmap` was a program I wrote to learn Win32 GUI programming. It's a program for mapping interactive fiction games. I sold it as shareware for several years, then released it as open source in 2007.
- `Fast File Validator` is a tool for verifying files against a checksum file and for creating checksum files. It supports both CRC32 and MD5. (I'm using checksum in the generic sense. Technically, neither CRC32 nor MD5 is really a checksum.) I wrote the Windows version in 2000, and added Linux support in 2005.