

Chris Winters

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Objective

Create sustainable web applications using open tools and systems.

Experience

Internet Development Consultant

Consultant
6/2001 - Present

Designed and built **full-scale website management solutions** to solve variety of business problems. Clients included non-profit advocacy agency, publisher of financial magazines and newsletters, national real-estate agency and Internet marketing firm.

Created **flexible shopping cart and order system** that enabled public to register for events and buy products while internal staff could hook orders and clients into internal customer relationship management system. Built **online data input and reporting system** that enabled users to transform raw financial data from the government into reports and charts for internal and external use.

Java Internet Developer

Optiron
11/2000 - 6/2001

Designed and built **customer relationship management** software using Java 2 Enterprise Edition (including Enterprise Java Beans and rapid deployment capabilities) on multiple platforms, Servlets and XML DOM page creation technology as separate web-based front end to existing Visual Basic/Microsoft SQL Server client-server application.

Coded an **automated Java class creation** process that created Entity and Session beans based on metadata combined with SQL schema information from an existing database. This included the beans themselves, supporting classes and interfaces, deployment descriptors and the different types of relationships between Entity and Session beans.

Senior Internet Developer

intes.net
3/1998 - 11/2000

Developed **OpenInteract**, an **object-oriented web application framework** with robust data abstraction tools, developer-friendly API, and easily extensible architecture. It takes care of services such as user and group management, consistent object and task security, and themes for presentation. Framework written in Perl (25,000+ lines) to run with mod_perl/Apache and a number of CPAN modules, along with a SQL database. Also created a number of applications running under the framework.

Created **more than a dozen websites** and implemented many applications (large and small) using both CGI and mod_perl to interface with SQL databases. Developed tool for editing a **company-wide LDAP** address book along with a monitor to properly handle emails sent to LDAP groups. Built a self-sufficient **banner ad management system** to serve, administer and report on ads.

Constructed SQL databases using multiple products on different platforms, including MS SQL Server and Sybase Adaptive Server Anywhere on NT 4.0 Server; MySQL and Sybase ASE along with SQL Remote asynchronous data replication on Linux.

Administered Linux servers at various locations, onsite and remotely. Set up services including Samba, OpenLDAP, sendmail, POP3 and IMAP daemons, majordomo, secure shell (SSH) and tcpwrappers security, PPP connections, and network address translation (NAT) gateways.

Webmaster

International Research and Exchanges Board
2/1997 - 3/1998

Created Intranet site that provided centralized information for 80+ employees in DC headquarters and 50+ people throughout NIS. Database had 40,000 contacts organized in multiple ways; setup included Windows NT-based Sybase SQL Anywhere database running IIS with Perl and ODBC; client used Netscape 3.0 with extensive Javascript. **Created online, context-sensitive help system** using HTML, Javascript and Perl for Intranet, including a browser-based authoring tool, and expanded it to include Intranet documentation and IREX hardware/software documentation. **Maintained the company website** which served existing customers, sold the company's story to government funding organizations and attracted new participants to programs. Implemented links database and products database with Russian/English search and display capabilities.

Provided helpdesk functions for computers (Windows 95/NT, MS Office, Pegasus Mail, publishing tools, scanners and various peripherals, variety of Intel desktops and Toshiba laptops) and phone system (AT&T Merlin PBX and Intuity voice mail). Shared network administration duties, including writing a number of scripts to automate tasks. Built and repaired commodity PCs and laptops.

Writer/Webmaster

Community Transportation Association of America
8/1995 - 2/1997

Engineered three websites, one a finalist in worldwide competition. **Wrote Perl CGI programs** for users to search and enter information into a transportation events calendar and links database, register for events and order publications, and display timetables created on-the-fly from raw data. **Taught transit professionals to use the Internet** and its potential benefits to their systems. **Set up internal TCP/IP network** and connected Mac/PC office to Internet via shared ISDN line. **Wrote and edited articles** for *Community Transportation Reporter* (10,000 circulation; 9/year) and other technical reports, primarily on technology issues.

Technical Abilities

Platforms	Linux, Windows 3.1/95/NT/2000, Netware, Solaris, BSD, Macintosh
Frameworks	Java 2 Enterprise Edition (J2EE) using JBoss and Apache Tomcat: Enterprise Java Beans and Servlets; XMLC; OpenInteract, mod_perl, Template Toolkit
Languages	Perl, Java, JavaScript; SQL (generic and Transact-SQL)
Databases	MySQL, PostgreSQL, Sybase Adaptive Server Enterprise, Adaptive Server Anywhere, SQL Remote data replication, MS SQL Server
Servers	Apache (Unix and Win32), Apache-SSL (Unix), Internet Information Server, LDAP, Samba, Sendmail, IMAP, lpd, Secure Shell (sshd), BIND, tcpwrappers

Education

University of Pittsburgh, 1992, B.A., *Cum Laude*, History
Minors: Computer Science, English, Russian

Etc.

- Primary author of OpenInteract, an open source mod_perl application server
- Primary author of SPOPS, an open source database-independent object persistence framework
- Contributor to open source Apache::Session Perl module
- Presented "OpenInteract, an Extensible Web Application Server" at yapc 2001 in Montreal, Quebec
- Presented "Perl and Databases" at yapc 1999 held in Pittsburgh, Pennsylvania
- Founded (Washington) DC Perl user group and gave presentations on mod_perl and DBI