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Objective

A position in software development or training in an open and creative environment.

Summary

I offer an extensive background in software development distinguished by productivity, creativity and elegance of design. Proven expertise in dynamic web pages, customized database applications, graphical groupware, and software tools. Skilled in communication with technical as well as non-technical people. Experience on Unix, Windows, and MacIntosh (OSX).

Languages and GUIs

Fluent Languages	Perl, C, FoxPro
Known Technologies	Catalyst, DBIx::Class, GD, HTML, CSS, CGI, SQL, Tk, XML::Parser, HTTP::Request, MD5::Digest, ImageMagick, JPEG compression, X10, POP3, Mail::Sendmail, SMTP, Net::FTP, Win32::OLE, SOAP::Lite
Familiar	Ruby/Rails, JavaScript, AJAX

Development Experience

1989-present Mount Madonna Center, Watsonville, CA

What began as a long term volunteer project is now a full-time job. For 14 years I provided system administration, support, and technical consultation. Developed customized software in an ancient language named 'FoxPro for Unix' for mailing lists, accounting reports, seminar registration, housing reservations, auction management, school administration.

Today I am developing a rather complex modern web-based application for this nationally known conference center. Technologies used: OO Perl, DBI, MySQL, Catalyst, DBIx::Class, GD, image maps, Javascript, CSS.

2007-2008 Independent Consulting

A variety of short term contracts for small to medium businesses. Mostly Perl/CGI/DBI.

2000-present Sue Center - Computer Access for the Disabled

Full details at: www.suecenter.org Over a period of 20 years have served as a computer consultant to a severely handicapped woman, enabling her to communicate more effectively.

Beginning in 2000 wrote a complete system in Perl/Tk to enable her to choose letters and words, speak them, read books, view photographs, dictionary look-up, control X10 modules, send and receive email, and much more.

Presentations at O'Reilly Open Source conference in 2001 and 2002.

Presentation at CSUN Conference in 2007 - Technology and People with Disabilities

2005-2006 Cisco - Contract Perl developer on the EMAN team.

Technologies used: OO Perl, SOAP::Lite, DBI::Oracle. The project dealt with Sarbanes-Oxley compliance for Unix User Access. We designed and developed a very flexible and sophisticated system for granting access to unix machines based on roles within the company. It was part of the OnRamp resource system. The project was abandoned/postponed because the legacy data (gathered by others) proved to be quite non-standard and overly complex. The conclusion was that Cisco first needed to standardize their processes before the project could be resumed.

2003-2005 Yahoo! Perl developer on the logs team.

Wrote scripts to parse and tally Apache web logs to analyze user activity. The results were used by business people and executives to determine how to optimize the user experience and revenue. Worked on Yahoo! Shopping, Travel, Autos and Search.

2003 Independent Contracting

A variety of short term contracts from small companies: Con-cise, DBM Engineering, Flink Inc, Findlaw, Mount Madonna Center, Aguirre Health Systems

2001-2002 Sesame Technology

Java and Perl engineer on a small development team. Took the lead in developing a complete scriptable interface to a comprehensive Java J2EE servlet application (a web-based defect tracker). This was done in object oriented Perl in a rather elegant manner.

Several complex Perl applications were created using this interface to integrate the customer's specific needs. There were CVS, Clearcase and Perforce source code integrations. Another was a very large and elaborate system for helping Quest Intl track down spammers. This included fuzzy logic to sort through email, parsing headers to identify the originating IP address, and an MD5 signature to classify spam variants. Perl's object model served quite well.

Created a Template class in Java that was 14 times faster than the prior one.

1999-2000 Global Sight Lead engineer in a web start up making a localization tool for translators. One large project was to route dynamically changing database records through the workflow system. This involved SQL triggers and a complex configuration. A complete document was written which served very well for guiding further development. This was done with OO Perl, DBI, Oracle, mod_perl.

1998-1999 Imagehost.com

As the only engineer in a small web business I singlehandedly created an image hosting service on the web primarily for online auction users. OO Perl, DBI/mySQL, CGI. After I left, it evolved into www.prosperpoint.com which is still a thriving web service.

1997-1999 Menicon

Created a system to do ordering of contact lenses which is still being used daily. Project definition was the trickiest part. Bridged Japanese and American cultures in the process. The variety and complexity of lens designs made this a very difficult project. Communication and negotiation between order entry, logistics, manufacturing, executive, and sales. Used FoxPro, SCO Unix, Perl, Postscript.

1997-1998 Vision Care Center

In consultation with an ophthalmologist designed and created an elaborate medical records system for this large medical office. Focus was on speed of entry and ease of bringing forward past visits. Has been in use every day for the past 5 years to record the complete visits of thousands of patients. FoxPro, C, Perl, awk, SCO Unix, VSIFAX.

1986-1995 The Santa Cruz Operation

OpenServer Release 5 - Created a Motif front end for a sophisticated calendar application. Interacted with documentation, human factors and a large international user community.

Maintained an online help system based on NCSA Mosaic. Modified httpd to deliver compressed files.

Open Desktop - Worked on many different applications including graphical login, mouse configuration, graphical mailer, and session manager. Built a backend library for the mailer.

Office Portfolio - This is a suite of office automation applications for text terminals. Over a period of 4 years served as engineer, architect, and project manager of a team of up to 10 people.

SCO Professional - In a clone of Lotus 123 release 2.01 - implemented the macro language.

Software Training Experience

2003 Private Tutoring Introduction to Perl

2001-2002 Sesame Technology Taught classes in Perl, Unix and Java (e.g. 1.4 regular expressions).

2001-2002 Cadence Technology Perl instructor. Taught two intensive 2 day classes with labs in Introduction to Perl.

2001-2003 Gavilan Junior College Developed and taught several 8 week classes in Perl and Java on Saturdays.

1999 GlobalSight Served as Perl instructor for a class of 8 junior engineers

1994 Santa Cruz Operation Developed and taught six classes on the GNU Emacs environment to 40 people.

Volunteer Efforts

1989 to present, Mount Madonna Center

Provide system administration, support, and technical consultation. Develop customized software for mailing lists, accounting reports,

seminar registration, housing reservations, auction management, etc. See [here](#) for a discussion of one large project.

1995-1997 Mount Madonna School

Designed and created a complete school administration software system. It included class scheduling, student data, grades, and narrative evaluations. Interacted intensely with principal, registrar, teachers and administrative staff.

Formal Education

BA Mathematics	UC at Santa Cruz	graduated with honors
MA Mathematics	U of Maryland	NSF Fellowship, algebraic topology
BA Biology	UC at Santa Cruz	