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Technical Skills Summary

Perl: Expert Level, including **object oriented Perl** using standard Perl as well as **Moose**. Recent experience **building web applications** using the **Catalyst Framework**. Performed many **reporting, data cleansing** and **ETL** jobs.

PHP: Intermediate Level, usually used for simple website templates.

Shell Scripting: Expert Level, including **BASH programming**.

System Administration: Expert Level, on **Linux/UNIX**. Installed and configured a number of systems, both server and desktop, from scratch.

SQL Databases: Experience with **MySQL, PostgreSQL, Microsoft SQL Server** and **SQLite**, as well as **Unidata/Universe** on the **IBM U2 Platform**.

Web Development: Expert Level **LAMP** programmer, using both **PHP** and **Perl** extensively. Good with **Javascript** and **AJAX** on the frontend, as well as **CSS**.

Web Servers: Expert Level **Apache HTTP Server** administration and configuration. Some experience programming **mod_perl**.

Windows: Expert at **Windows XP** configuration and optimization. Some experience using **Windows Server** technologies. Experience using both ActiveState and Strawberry **Perl on Windows**.

Version Control: Experience using **CVS** and **Subversion** with teams of programmers.

Web Automation Programming: Expert at web screen scraping using Perl modules, especially **WWW::Mechanize**.

Network Analysis: Intermediate Level. Experience using **Wireshark** to troubleshoot network latency.

Miscellaneous: Strong verbal and written communication skills, excellent troubleshooting and debugging skills, exceptional problem solving skills, and good teams skills.

Skills

Programming Languages: Perl, JavaScript, SQL, PHP, C, Objective-C, Python, ASP, Visual Basic, shell scripting

Formats and Markup Languages: XML, HTML/DHTML, CSS, YAML, EDI, JSON

Databases: MySQL, PostgreSQL, Microsoft SQL Server, SQLite, Unidata/Universe

Web Servers: Apache HTTP Server, Microsoft IIS

System Administration: Linux/UNIX - Slackware, Debian, Ubuntu, AIX 5L, Solaris 10 and RedHat. Windows 95/98/NT/2000/XP/Server 2003. Mac OS X.

Programming/Software: LAMP database driven websites in both PHP and Perl, CGI scripts, Catalyst Web Framework, Moose, DBIx::Class, Template Toolkit, CPAN Modules, jQuery, mod_perl, Mason, WWW::Mechanize, POE, PAMIE, RT Trouble Ticket System, Paypal IPN, Amazon S3, Google APIs (Calendar, Checkout, Contacts, Spreadsheets, Documents), IBM U2 Platform (Unidata, Universe, UniBasic, UniQuery, System Builder/SB+, SB Client), CVS, Subversion, vi, vim, SQLYog, MyPHPAdmin, Cocoa, WinSCP, lftp, Microsoft Office (Excel, Word, PowerPoint, Access), ActiveState Perl, Strawberry Perl, iptables, Snort, Wireshark, Net::Telnet, Windows Remote Desktop, TightVNC, Google Analytics, Greasemonkey, Firebug, LiveHTTPHeader, NSIS

Methodologies: Structured Programming, Object-Oriented Programming

Work Experience

- **Prosum Technology Services** El Segundo, CA
Contract Programmer 8/2010 - present
 - Troubleshooting bugs in Perl code for modified RT trouble ticket system
- **Candela Corporation** Irvine, CA
Application Developer 2/2010 - present
 - Designed, developed and deployed a series of dashboards that integrate with Candela's 4GL System:
 - * Designed frontend templates with Template::Toolkit and jQuery
 - * Created object oriented code to model business objects using Moose
 - * Developed a Windows applet running a POE script that checked for user activity in the 4GL system and triggered actions in a web browser
 - * Helped optimize Unidata database replication to work in a realtime environment with 2 different middleware databases (MySQL and PostgreSQL) running concurrently
 - Optimized MySQL and PostgreSQL to make queries from the dashboard work as fast as possible
 - Optimized SQL calls using DBIx::Class and SQL::Abstract
 - Created database relationships, indexes and database deployment scripts programatically using DBIx::Class
 - Design and development environment included:
 - * vim for IDE
 - * Subversion for version control system
 - * Slackware Linux 11 running LAMP on middleware server
 - * Debian "Lenny" Linux running PostgreSQL on alternative reporting server
- **Self-Employed** Irvine, CA
iPhone App Designer 8/2009 - present
 - Designing an iPhone application for reading astrology charts
 - Learned Cocoa and Objective-C on Mac OS X
 - Saved persistent data in a SQLite database
 - Charts generated server-side with Perl CGI scripts and JSON
 - Modified C code in open-source astrology chart generator Astrolog
 - Designed table based UI from scratch
- **Candela Corporation** Irvine, CA
Application Developer 4/2009 - 8/2009

- Designed, developed and deployed a new backend for Candela's new e-commerce website:
 - * Converted broken CMS platform to discrete CGI scripts for each unique page type
 - * Designed a hybrid PHP/Perl script platform, allowing the choice of either language for each page
- Optimized database queries for e-commerce app
- Designed email based authentication system for website logins
- Enhanced front-end with Javascript and CSS modifications
- Created logic to export data out to a MySQL middleware database
- Designed DBIx::Class scheme mappings for middleware database
- Designed new web forms with HTML::FormFu featuring AJAX validation
- Designed a product cross-reference database using SQLite and CSV files
- Configured web server on DMZ and configured security
- Corrected gramatical errors and made copy suggestions
- Design and development environment included:
 - * vim for IDE
 - * Subversion for version control system
 - * Slackware Linux 11 on both middleware and web server

- **Undercover** Costa Mesa, CA
Web Developer 6/2009 - 8/2009
 - Converted website from static HTML pages to a custom template system using PHP
 - Integrated web forms with Google Spreadsheets so that client could maintain booking information there
 - Designed custom mailing list tools
 - Deployed code via FTP using Perl scripts
- **Southern Counties Express** Rancho Dominguez, CA
Application Developer 11/2008 - 12/2008
 - Created a number of WWW::Mechanize scripts to automate tracking of freight containers from various port and shipping websites
 - Integrated scripts with UniBasic programs
 - Design and development environment included:
 - * vi for IDE
 - * Subversion for version control system
 - * RedHat Linux for application server
- **Tarsadia Hotels** Newport Beach, CA
ETL Application Developer 7/2008 - 9/2008
 - Parsed complex screen outputs from a hotel reservation system using Perl
 - Formatted data to be loaded into a database
 - Created cron jobs to FTP data to another application server
- **Prosum Technology Services** Irvine, CA
Contract Programmer 6/2008 - 7/2008
 - Troubleshooting bugs in Perl code for modified RT trouble ticket system
 - Submitted code changes via email
- **Candela Corporation** Irvine, CA
Application Developer 2/2008 - 2/2009
 - Designed a system to cleanse and expand Candela's product database to included detailed product attributes and specs:

- * The system cross references and standardizes attribute language between multiple sets of vendors into a common set of product descriptors.
- * Product data was collated from a variety of sources: vendor websites, spreadsheets, PDF files
- * YAML was used as a database for each vendor specific product.
- * SQLite was used as a temporary database before data was loaded into Unidata via third-party programs.
- Used WWW::Mechanize to scrape vendor websites. Skilled means were used to bypass complicated authentication schemes on these sites.
- Used CPAN modules and PDF spec to decode product data from PDF files
- Wrote command line based terminal programs in Perl that allowed users to view and edit product data
- Design and development environment included:
 - * vim for IDE
 - * Subversion for version control system
 - * Slackware 11 for application server

- **CallCommand** Irvine, CA
ETL Application Developer 9/2007 - 4/2008

- Parsed various data imports (flat files, XML) according to business rules supplied by third-party providers
- Wrote Perl CGI scripts to display results, including Javascript for dynamic lookup on the front-end
- Design and development environment included:
 - * vi for IDE
 - * CVS for version control system
 - * RedHat Linux for application server

- **Orange County Yoga Studio** Lake Forest, CA
Web Application Developer 7/2007 - 9/2007

- Designed a student registration and accounting system for the yoga studio:
 - * Used the Catalyst Framework as the development platform
 - * Used SQLite in concert with DBIx::Class schemas for the database platform
 - * Used Template Toolkit and jQuery for the front-end views
 - * Wrote Perl scripts to enable batch creation of student, teacher and class records
- Converted website from static HTML pages to a custom template system using Mason and MySQL
- Design and development environment included:
 - * vim for IDE
 - * Subversion for version control system
 - * Slackware 11 for application server

- **Candela Corporation** Irvine, CA
Consultant 3/2007 - 10/2007

- Audited Candela's entire ERP system for data bugs, including all aspects of order entry, purchasing, warehousing and accounting modules
- Solicited user feedback and collated finding into reports
- Proposed solutions and program specification for programmers
- Used analytical skills, Microsoft Excel and Perl for data analysis

- **Candela Corporation** Irvine, CA
 - *Lead Programmer / Database Manager / System Administrator* *07/2001 - 07/2005*
 - As Lead Developer, wrote custom applications for an ERP system (Activant Prelude) for the lightbulb distribution industry:
 - * Modified and designed a combination of SB+ and UniBasic programs to improve upon business processes
 - * Customization of CRM, Accounting, Inventory and Warehouse Management modules
 - * Worked with managers across all company departments to determine application design needs
 - Developed and maintained XML/EDI transaction systems, adding automated ordering and invoicing capabilities between vendors
 - Designed company intranet using ASP, Visual Basic and Unidata
 - Created Perl scripts for Web automation/screen scraping, primarily for product cost data and warehouse availability of products
 - Created Python scripts for client-side web browser automation
 - Wrote reports using SB+ Report Writer
 - Wrote systems to export data from Unidata out to Excel
 - Documented company procedures on all system modules
 - As Database Manager, optimized Unidata database using indexing and resizing tools
 - As System Administrator, performed regular system backups and system maintenance tasks on a daily/weekly basis

Other Projects

- **Web Hosting**
 - *Linode and at home* *2003 - present*
 - Maintain a number of different websites on a virtual private server (Linode) running Slackware 12.2
 - Used to maintain websites on a home server
- **MP3 Conversion Systems**
 - *at home* *2005*
 - Wrote shell scripts to automate CD to MP3 conversion of entire CD collection

Education

- **St. John's College** Santa Fe, NM
 - *B.A. Liberal Arts* *8/1996 - 6/1999*
 - St. John's College is a four year liberal arts college known for its distinctive 'Great Books' curriculum.
 - Mastered an interdisciplinary curriculum based on the Great Books of Western civilization. Analyzed source texts in the sciences and humanities. Wrote extensive essays and passed rigorous oral examinations. Presented and defended arguments in a seminar setting. Studied four years of philosophy, mathematics, and language, three years of laboratory sciences, and two years of music.