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References upon request

## Skills Summary

**Technology Management:** Nearly two decades of experience working as a software developer, including long periods managing and working with teams of programmers and technicians in a corporate environment and short stints working independently as a contract programmer.

**Programming:** Expert Level in many high-level programming languages, especially **object oriented Perl** using standard Perl as well as **Moose**. Performed many **web, database, reporting, data cleansing** and **ETL** jobs on UNIX, Linux and Windows platforms.

**4GL Programming:** Over a decade of experience programming the **IBM U2 Platform**, most specifically with **Prelude Advanced Distribution Software** running on **SB+**.

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

**Databases:** Experience with SQL databases like **PostgreSQL, MySQL, Microsoft SQL Server** and **SQLite**, as well as multivalued **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**. Expert Level at **Apache HTTP Server** administration and configuration, including **mod\_perl**.

**Business Intelligence:** Some experience managing and customizing **Tableau** for SQL analytics, as well as **MITS** on multivalued systems.

**Networking:** Intermediate Level. Experience with various routing and switching platforms, including RouterOS and Cisco Systems.

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

## Technical Skills List

**Programming Languages:** Perl, JavaScript, SQL, Unibasic, 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, Tableau, MITS

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

**Hardware:** IBM RS/6000, Intel/AMD servers, IBM Thinkpads, NEC and FreeSwitch phone systems, Cisco networking

**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, IBM U2 Platform (Unidata, Universe, UniBasic, UniQuery, System Builder/SB+, SB Client), git, CVS, Subversion, vim, SLYog, MyPHPAdmin, Microsoft Office (Excel, Word, PowerPoint, Access), ActiveState Perl, Strawberry Perl, iptables, Snort, Wireshark, Net::Telnet, Windows Remote Desktop, TightVNC, Google Analytics, Greasemonkey, Firebug, LiveHTTPHeaders, NSIS

**Methodologies:** Structured Programming, Object-Oriented Programming

## Work Experience

- **Yingge Mule** Irvine, CA  
*Lead Programmer* 04/2018 - present
  - Lead programmer on a custom e-commerce site and inventory management system for a teaware company:
    - \* Wrote Perl Catalyst web application to manage shopping cart and credit card transactions
    - \* Wrote Perl Catalyst inventory management system with DBIx::Class and PostgreSQL backend for both online sales and long-term storage of large quantities of tea for groups of buyers
    - \* Wrote Javascript routines and CSS to format front end of applications
    - \* Designed Template Toolkit system for managing products and attributes
- **Global Tea Hut** Miaoli, Taiwan  
*Lead Programmer* 10/2017 - 08/2018
  - Lead programmer on a large project for an online magazine devoted to tea:
    - \* Converted 5 years of PDFs to HTML using Perl
    - \* Developed OO Perl modules to define various components of the magazine
    - \* Wrote a configuration system in YAML to store magazine article metadata
    - \* Developed a Catalyst web application for navigating through issues and articles
    - \* Developed database schema in DBIx::Class for the web application model
    - \* Wrote Javascript routines and CSS to format the magazine according to specific editing parameters
    - \* Hand-edited edge case HTML that couldn't be properly covered by scripts
- **Southern California Vipassana Center** Twentynine Palms, CA  
*Volunteer Technical Lead* 1/2014 - 1/2016, on call when needed
  - Working as a volunteer for a worldwide meditation organization. Completed projects include:
    - \* Ported campus maintenance database from Microsoft Access to a Perl Catalyst/DBIx::Class database platform
    - \* Upgraded wired and wireless network hardware, including extensive rewiring throughout campus
    - \* Configured Mikrotik RouterOS for WAN security and various NAT configurations
    - \* Built and administered a number of turnkey server systems for audio/video presentations, running Perl to stream audio and video to multiple mobile devices and audio components
    - \* Re-configured and administered FreeSwitch phone system through campus, converting from an initial test system on Windows to a production system on Linux
- **Candela Corporation** Irvine, CA  
*Chief Technology Officer / Application Developer / Database Administrator* 2/2010 - 4/2014

- As Chief Technology Officer:
  - \* Managed a small IT staff to support 70+ employees in 3 different states, including programmers and technicians
  - \* Upgraded network infrastructure to Cisco Systems platform, improving network stability
  - \* Migrated critical business systems to colocation facility, leveraging offsite private cloud systems (VMWare) over fiber
  - \* Managed remote SB+ programmers and helped program and modify systems to improve business logic in ERP system
  - \* Managed remote Perl programmers and helped programs systems to replicate Unidata to PostgreSQL in real-time
  - \* Managed NEC phone system, including integration to ERP system (Prelude ADS)
  - \* Oversaw upgrade of business intelligence (BI) systems from MITS to Tableau
  - \* Developed modifications for Spiceworks allowing for more flexibility in system administration and help desk management
  - \* Managed IT budget
- As Application Developer:
  - \* Designed, developed and deployed a series of web dashboards that integrated tightly with "green screen" ERP system (Prelude ADS):
    - 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 ERP 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
  - \* Developed multi-dimentional drill down reporting system with custom CGI programming and extensive use of DBIx::Class relationships
  - \* Continued development on dual PHP/Perl custom CGI website for electronic order status
- As Database Administrator:
  - \* Optimized Unidata, MySQL and PostgreSQL databases to make queries work as fast as possible via all systems
  - \* Optimized SQL calls using DBIx::Class and SQL::Abstract, building complex SQL statements in the ORM
  - \* Created database relationships, indexes and database deployment scripts programatically using DBIx::Class
  - \* Continued to add custom tables and fields during ongoing ERP development

- **Prosum Technology Services**

El Segundo, CA

- *Contract Programmer*

8/2010 - 8/2011, as needed

- Customized Perl code in RT trouble ticket system per client request
- Troubleshooting bugs in Perl code for modified RT trouble ticket system

- **Self-Employed**

Irvine, CA

- *iPhone App Designer*

8/2009 - 4/2011

- Designing an iPhone application for reading astrology charts
- Managed sales channel on iPhone App Store
- 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 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
- Sanitized product data files provided by vendors for ETL using Perl
- Configured web server on DMZ and configured security
- Corrected grammatical errors and made copy suggestions

- **Self-Employed**

Lake Forest, CA

- *Contract Programmer*

3/2007 - 8/2009

- 2 year contract for Candela Corporation in Irvine, CA:
  - Audited Candela's entire ERP system (Prelude ADS) for data bugs, including all aspects of order entry, purchasing, warehousing and accounting modules
  - Proposed solutions and wrote specification for ERP programmers
  - Designed system to cleanse and expand Candela's product database to include detailed product attributes and specs. This involved many different types of ETL transactions.
  - Used WWW::Mechanize to scrape vendor websites. Skilled means were used to bypass complicated authentication schemes on these sites.
  - Wrote terminal programs in Perl that allowed users to view and edit product data
- 2 month contract for an entertainment company in Costa Mesa, CA:
  - 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 using Perl
  - Deployed code via FTP using Perl scripts
- 1 month contract for an logistics company in Rancho Dominguez, CA:
  - Created a number of WWW::Mechanize scripts to automate tracking of freight containers from various port and shipping websites
  - Integrated scripts with UniBasic programs
- 2 month contract for a hotel management company in Newport Beach, CA:
  - Parsed complex screen outputs from a hotel reservation system using Perl
  - Formatted data to be loaded into a proprietary database

- Created cron jobs to FTP data to another application server
- 1 month contract for a technology company in Irvine, CA:
  - Troubleshooting bugs in Perl code for modified RT trouble ticket system
- 2 month contract for a yoga studio in Lake Forest, CA:
- Designed a student registration and accounting system:
  - 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
- **CallCommand / Autobytel** Irvine, CA
  - *Web Application Developer* *3/2007 - 4/2008*
    - Designed new interfaces and Modified in-house web application used to manage car dealership service notifications:
      - \* Designed Perl CGI scripts and Javascript driven front-end for configuring dealer notification schemes
      - \* Wrote SQL queries to interface with MySQL
      - \* Modified pre-existing Perl CGI scripts to include additional business rules
      - \* Modified ASP scripts for front-end web interface
    - Parsed various data imports (flat files, XML) according to business rules supplied by third-party providers
- **Gridbyte** Laguna Niguel, CA
  - *Network Analyst* *2/2007 - 3/2007, 1 month contract*
    - Troubleshooting network intermittency issues for a mid-sized engineering firm:
      - \* Configured Wireshark for packet analysis
      - \* Ran UNIX core tools in shell scripts and analysed output
      - \* Wrote custom Perl scripts to analyse tcp/udp traffic patterns
      - \* Parsed network monitoring logs using Perl
    - Interfaced with various operating systems including Solaris 10, RedHat, Mac OS X, Windows 2000, Windows XP, and Cisco router software
- **Tarsadia Hotels** Newport Beach, CA
  - *Application Developer* *8/2006 - 7/2007*
    - Designed an application to interface with hotel registration data:
      - \* Interfaced with legacy terminal system using Net::Telnet
      - \* Parsed complex screen outputs from terminal using Perl
      - \* Formatted data to be loaded into a database
      - \* Created cron jobs to FTP data to another application server
    - Automated download and parsing of Google Analytics data
- **Independent Musician** Lake Forest, CA
  - *Application Developer* *11/2005 - 1/2007*
    - Wrote band performance scheduler and calendaring system in PHP
    - Wrote mailing list tools in Perl

- Designed an extensive automation system for MySpace:
  - \* Leveraging WWW::Mechanize, created MySpace profile search system with database backend
  - \* Automated comment and message sending to profiles using Perl CGI scripts and Greasemonkey on Firefox
  - \* Built a Customer Relationship Management (CRM) system to track interactions
- Created a digital music download systems interfacing with Paypal IPN and Google Checkout for transactions
- Designed music website using PHP as the template system
- Booked gigs, played shows

- **Self-Employed**

Fremont, CA

- *Web Hosting*

*2/2003 - present*

- Maintain a number of different websites for others on various Linux systems over the years

- **Candela Corporation**

Irvine, CA

- *Lead Programmer / Database Manager / System Administrator*

*07/2001 - 07/2005*

- As Lead Developer:
  - \* Wrote custom applications for an ERP system (Prelude ADS) serving the lightbulb distribution industry:
    - Designed and modified ERP System (Prelude ADS) and UniBasic programs to improve 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

## Current Projects

**Family:** Married with 3 children (7, 6, 3 years old)

**Tea:** Love preparing fine teas and performing tea ceremony

**Meditation:** Meditating nearly every day since 2008

## 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.