

Knowledge

Programming languages:

PHP, Python, Lua, JavaScript, SQL, C#, (X)HTML, CSS, XML, XSL

Tools:

Subversion, git, CVS, Vim, L^AT_EX, regular expressions, PhotoShop, the GIMP, Microsoft Visual Studio, Apache

Libraries:

Django, jQuery, PEAR, Prototype.js, Base2.DOM

Project History

At ESRI

Third Party Content Database (internal)

Tracking of external components used in ESRI's GIS software. Used for export compliance analysis and compliance with attribution requirements.

Written in Python with Django. Multi-user, permissioned web front-end to an sqlite database.

GlobaLaw Knowledge Base (internal)

Front-end for navigating location-based data, drilling-down through geographical regions to local areas.

Written in PHP and MySQL, employing jQuery for UI details and JSON. Interaction with MS SharePoint. Friendly web interface for adding location data, allowing simple clicks to be turned into image maps without requiring technical knowledge from the user.

Business Interests Database (internal)

Tracking investments and details of subsidiary companies, including data visualization and custom reports, with Google Maps API integration.

Written with PHP and MySQL, employing jQuery for UI details. Created an extensible framework for report generation, allowing easy development of custom reports for non-technical users.

"Add Link" Web Part (internal)

Microsoft SharePoint web part allowing link creation in document libraries

Written in C#, using Visual Studio. Twisted SharePoint to meet with the internal client's goals, providing a more consistent experience for end-users.

Data reformatting tools (internal)

Converted text output from SAP R3 to Excel spreadsheets, for use by non-technical staff in report generation.

Written in Python, with wxPython and py2exe. Parsed horribly inconsistent and changeable data and output far more usable information.

At P & L Systems

Onlinemove.co.uk (onlinemove.co.uk - not live)

Real-estate solicitor competitive quoting system, with multiple user roles

Written with PHP and MySQL, with jQuery.

Technology Futures Network (technologyfuturesnetwork.org)

Business executive social networking site.

Written with PHP and MySQL.

Chatterton's (chattertonshop.com)

Fashion boutique web store, extending ZenCart.

Written with PHP and MySQL. Attention paid to making changes maintainable, and allowing for easy upgrades of the core product.

EEFOS (eefos.com)

Laundry service dispatch site.

Written with PHP and MySQL.

Barclays Bank (internal)

Updated internal training website from ASP to ASP.Net

Personal Projects

FicWad (ficwad.com)

Fiction archive site, with use of caching, performance-tuned SQL, Unicode support, using AJAX where appropriate.

Written with PHP and MySQL, using Base2.DOM for javascript assistance, and Python for backend scripts. Has to cope with high traffic on limited hardware; many optimizations in place.

maphilight (plugins.jquery.com)

iQuery plug-in that adds mouseover highlighting to image maps. Created for a project involving maps of the world, to add some "punch" to the interaction.

Pure JavaScript, with cross-browser compatibility techniques to use VML in IE and <canvas> in more capable browsers. Highly customizable through documented APIs.

World of Warcraft addons (davidlynch.org/wow)

Written in Lua and XML, employing a poorly documented API to create usable enhancements of people's gaming experience. Also created and maintained libraries for other's use.

lj.py (ljpy.googlecode.com)

Object oriented, Python implementation of the LiveJournal API.

akismet.py (akismetpy.googlecode.com)

Python implementation of the Akismet spam-checking API.

Employment history

Environmental Systems Research Institute, Inc.

Special Projects Programmer
Redlands, CA
2005 - present

P & L Systems, Ltd.

Contract Programmer
High Wycombe, Bucks, UK
2003 - present

References

Available upon request.