Canfield Scientific Inc.

Canfield Scientific, Inc., is the global leader in imaging systems services and products for scientific research and healthcare applications, including the pharmaceutical, biotechnology, cosmetics, medical and skin care industries.

Project
Corporate site redesign and ASP to PHP migration

Project Description
Client wished to implement latest technologies, migrate to a tableless layout and redevelop site for ease of maintenance and customization. They also wished to be able to easily add new functionality and internationalize the site. Existing website consisted of over 200 static HTML pages and an additional 200 ASP support routines. The delivered solution was an entirely dynamic website with an administrative interface to manage content as well as page layout. The 200 static pages were reduced to 1 layout page and 5 support routines. Application was written in PHP using the Symfony framework and jQuery for much of the user experience.

This project is in testing and has not yet gone live.

Responsibilities
1. Sole project developer and designer.
2. Translated from ASP to PHP and Symfony
3. Migrated site from static content to fully dynamic database driven design.
4. Created Administrative Interface to manage site content and layout.
5. Redesigned site to a tableless layout.
6. Implemented jQuery for rich user experience.
7. Used semantic URLs to create "friendly URLs" for the user experience / SEO:

   Original URL:
   http://www.canfieldsci.com/Imaging_Products_Form.asp?Product=OMNIA&Category=OMNIA

   Semantic URL:
   http://www.canfieldsci.com/Imaging_Systems/Products/OMNIA/Request_Quote.html

Optaros Inc.

Optaros is a consulting organization specializing in the rapid creation of next generation Internet Applications. Their Methodology is to assemble existing, reusable components customized to the specific applications needs.

Project
e-Commerce Software as a Service Web Platform

Project Description
Client wished to implement new e-Commerce SaaS (Software as a Service) platform for the world's largest retailers. First customer was one of the World's leading lingerie companies. Application was based on combination of Open Source, Proprietary and custom applications. The platform was designed to handle millions of users per day per client and have real time integration with customers order fulfillment systems.

Responsibilities
8. Led 12 member team developing middle tier integration to back end client systems.
   a. Real time integrations via Web Services.
   b. Nightly batch updates of product catalog (hundreds of changes per day).
   c. Initial Data Migration of customer's entire catalog (millions of products).
9. Created requirements from client and internal teams.
10. Designed and architected solution.
11. Reviewed, demoed and made recommendation to client for software to use in middle tier.
12. Daily meetings with internal and external project management teams.

Project
oView - Software as a Service Web Application

Project Description
oView is Optaros' first SaaS (Software as a Service) offering. The concept is centralized storage and management of full-featured rich Internet applications that can be easily deployed to multiple locations with minimal effort. The oView client would control all content and content access centrally through a comprehensive administration interface.

Used by NFL Patriots for their Calendar App on their home page and Facebook

Responsibilities
1. Develop custom modules in PHP using Symfony framework.
   Sample modules:
   a. Embed this – client interface as well as administrative interface.
   b. Email a friend – including Captcha.
   c. Social network integration including Facebook, Stumbleupon etc.
   d. Several administrative components.
2. Design and maintain necessary database schema to support modules. Database portability a priority.
3. Implementation of xHTML, CSS, and JavaScript. Heavy usage of jQuery.
4. Implementation and customization of Video Player software (FlowPlayer)
5. Became subject matter expert on Amazon EC2, Amazon S3 and Google Urchin.
   a. Implemented solutions for servers, storage and analytics.
   b. Integrated PHP application to use S3 servers
   c. Integrated PHP application to use Google Urchin

Project
Insurance Agent Lookup Micro Site

Project Description
Mid sized Massachusetts based Insurance Company wanted a Micro-Site to allow customers to find the closest independent agents to their home. User inputs their zip code and they are presented with top 3 agents based on distance and the agent's relationship with the Insurance Company. Application built using Symfony and PHP. Integrated with Google Geolocation APIs and was developed to present all results plotted on a Google map

Responsibilities
1. Gather requirements, design and build application.
2. Application built in PHP using Symfony and MySQL. Integrated with Google Geolocation APIs and Google Maps.
3. Design and implement MySQL Database.
4. Implemented custom administration interface for company to maintain agents.

Project
Community Portal and Social Network for Home Remedies & Health Magazine

Project Description
Publisher wished to setup a portal and community site for their readers for one of their Health magazines. The focus was to be on home remedies and allow users to share information on techniques and knowledge. Application contents included magazine articles, remedy lookups, and blogs. Application built in PHP using Drupal.

Responsibilities
1. Customize user experience look and feel.
2. Implement Drupal search module.
3. Implement and customize several administration modules.

Project
Intranet Portal & CMS – World Leading Video Game Company

Project Description
A World Leading Video Game Company wished to implement an Intranet and content management system. They were preparing for a large merger and needed to get their documents and systems in line to ease their transition. Initially system was to be used by Sales then Engineering before being rolled out to entire organization. Previously they had been storing millions of mission critical documents on a series of network drives. For the Intranet portal they chose Liferay and for the CMS Alfresco.

Responsibilities
1. Integrate Alfresco into Liferay portal.
2. Created a custom search interface for Alfresco – Simplified search with document type, date range and full text search.
3. Testing and debugging of application.
4. Implemented custom bulk import tool for Alfresco via WebDAV.
   a. Implemented bulk processing script to add meta data on imported files.

Endeca Inc.

Endeca offers web based Enterprise Search and guided navigation solutions. Solutions built on this platform return much more than just query results. They also provide dynamic summaries of all the data and content in those results. And with every step the user takes, these summaries instantly change based on the user's selected filters, the possibilities in the data, and any business rules.

Project
Enable Enterprise Search for World Leading Electrical Parts Manufacturer

Project Description
World Leading Electrical Parts Manufacturer wished to enable guided navigation and enterprise search on their website. Company produces millions of parts and had thousands of vendors who ordered from their web site. They wished to simplify the user experience to find parts based on description, part number or several other metrics. Customer website was ASP based.

Responsibilities
1. Create workflow for nightly customers batch update of product catalog.
2. Implement Endeca technology to accept customer catalog data and prepare search indexes.
   a. Including consolidation, reformat and processing of source data.
3. Designed web pages for user experience.
4. Create web pages for search and navigation based on data outputted by Endeca technology.
   a. Implemented AJAX based detail retrieval for product results.
   b. CSS based expand / collapse of result detail.
5. Created AJAX based "type ahead" for search box.
   a. Performed lookups in Endeca based on what the user entered.
   b. Determined what type of search based on data formatting.
6. Testing and debugging of application.

Jacada Inc.

Jacada product suite provides access to many legacy systems including Mainframe, AS/400, Unix and Windows based applications. These applications are integrated with other systems, extended with custom logic and presented in new media custom GUIs or Web Applications. Often referred to as "Screen Scraping"

Project
Web Enablement Quoting / Policy Management for World Leading Insurance Company

Project Description
World Leading Insurance Company wished to web-enable their quoting engine and to allow policy holders to self manage their accounts. All systems resided on their legacy Mainframe applications. The target audience for the quoting application was the companies thousands of independent insurance agents. These Agents had always used pen and paper or DOS based applications. Project included the creation of training materials and handling of support calls from Agents.

Responsibilities
1. Interfacing with internal resources to learn systems to be web enabled.
2. Interface the Jacada product with client's Mainframe application.
    a. Adding custom logic to extend existing systems.
    b. Splitting and consolidating existing "screens" to simplify end user experience.
3. Development of web pages for application; including custom CSS and creation of image assets.
4. Development of parts of training materials and documentation.
5. Configuration of Unix based system servers and training of client personnel for management of servers.
6. Testing and debugging of application.

Project
Web Enablement of Registration and Employee Systems for Private NYC Univeristy

Project Description
Private University in NYC with approx. 3,000 undergraduate and 3,500 graduate students wanted to web enable their registration system and their other internal Mainframe systems. These systems included the registrar office, bursar office, and employee scheduling (vacation, part time employees, etc). Application was split into two parts, one for students, one for employees.

Responsibilities
1. Led two man team
2. Interfacing with internal resources to learn systems to be web enabled.
3. Interface the Jacada product with clients Mainframe application.
    a. Adding custom logic to extend existing systems.
    b. Splitting and consolidating existing "screens" to simplify end user experience.
4. Testing system for security risks from students.
5. Development of parts of training materials and documentation.
6. Testing and debugging of application.

ASCO

ASCO Power Technologies, the world leader in emergency and standby power transfer solutions. Automatic Transfer Switches and Power Systems safeguard data and telecommunications networks, industrial process and critical installations from health care facilities to financial transaction centers

Project
Web based custom CMS and workflow management for engineer approvals

Project Description
ASCO's engineering department creates technical schematics for their products. These schematics need to be based between several engineers and departments receiving revisions and approvals along the way. Previously they were handling these via email or physically transporting schematics between parties. They wanted to create an electronic repository to track schematic revisions, track approvals and manage the workflow.

Responsibilities
1. Gather and produce requirements from different departments involved.
2. Create ASP based solution for web interface.
    a. File management – upload, view and version tracking.
    b. Process workflow for approvals.
    c. Email notifications.
3. Design and implement MS Sql Server Database.
4. Produce documentation for user and system management.
5. Testing and debugging of application.

Project
Web based Phone Book / Employee Profiles

Project Description
ASCO wanted a web-based application to display employee bios and serve as an online phone book. Previously they printed and distributed directories to all employees.

Responsibilities
1. Design and implement ASP based phone book.
    a. Included name, job description, phone number, photo, and bio.
    b. Search by first name, last name, dept, or phone number.
    c. Implemented last name alphabetical filter interface.
2. Create ASP based interface for admin to manage employee entries.
    a. Create batch import / processing of initial data set.
3. Design and implement MS Sql Server Database.
4. Produce documentation for user and system management.
5. Testing and debugging of application.

ClientSoft

ClientSoft product suite provides access to many legacy systems including Mainframe, AS/400, Unix and Windows based applications. These applications are integrated with other systems, extended with custom logic and presented in new media custom GUIs or Web Applications. Often referred to as "Screen Scraping"

Project
Web-Enable Class Registration and Employee Systems for a Top 5 US University

Project Description
Project was to web-enable class registration and employee systems for one of the top 5 US Universities in the late 1990s. The University became one of the first to offer full-featured online systems to its students and employees. Online registration included course catalog and add/drop while the employee systems included benefit management, registration and bursar office systems.

Responsibilities
1. Led two man team
   a. Responsible for training of second developer.
   b. Second member was University employee who managed product after launch.
2. Designed and implemented majority of system interface.
3. Interface the ClientSoft product with client's Mainframe applications.
   a. Adding custom logic to extend existing systems.
   b. Splitting and consolidating existing "screens" to simplify end user experience.
4. Created documentation and training materials for system.
5. Managed ongoing support for University developer.
6. Testing and debugging of application.

Independent Consulting

Project
Portal, CMS and Social Network for Community Organizations

Project Description
Working with several different community organizations created a Web Portal, CMS and Social Network for them and their members. Application contained message boards, image hosting, document management, dynamic content, blogs and event scheduling as well as payment. Built on PHP and MySQL. Application was built before the mass adoption or availability of most frameworks and portals.

Responsibilities
1. Design, implement and maintain application for various organizations. Currently in production for three organizations.
2. Design and implement MySQL Database
3. Created custom image gallery
4. Implemented custom CMS with workflow management, versioning and multi-tiered security.
5. Implemented dynamic content authoring through administrative interface.
6. Integrated online payment with various Credit Card processors, PayPal and Google Checkout.
7. Extensive administration panel allowing most aspects of the site to be managed by administrators not coders.