

# Steve Mallory

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## Overview

Fifteen years database design and programming experience. Completed over 80 software projects covering a wide range of technologies, scopes and clients. Primary development technologies include C#, .NET, PHP, JavaScript, and VBA. Primary database systems include MS SQL Server, MS Access, and MySQL.

Exceptional oral and written communication experience which includes proposal writing; end-user training; phone, email, and on-site technical assistance (TA); requirements gathering; project documentation; and project team leadership. Most projects have included all phases of development from requirements gathering to end-user training.

Ten years' experience (concurrent) as a system administrator working with Netware, Windows, Linux, and Mac OS X server side; Windows, Linux and Mac OS X client side. Strong skills diagnosing and troubleshooting issues.

## Select Projects

### Castalia Quals

Custom project tracking application used for generating qualification documents used in proposals and business development. Wrote scripts to import years of data from MS Word documents into MS SQL Server database, validating data on the way. Application tracks executed contracts, including multiple sectors and areas of performance, staff time and roles, and location via map. Ability to query any database field and generate two pre-defined reports in MS Word.

**Technologies – ASP.Net, MVC, nHibernate, jQuery, jQuery UI, OpenStreetMaps API**

### Large National Association

Sitefinity 7 CMS implementation plus numerous online calculators and insurance application forms. Application forms allow users to transfer data (basic info, dependents, and beneficiaries) to additional applications. Overall, applications had dozens of custom validations. Included export functionality. Set up secure installation of MS SQL Server.

**Technologies – Sitefinity, ASP.Net, MVC, nHibernate, jQuery**

### Presbyterian College

Developed calendaring controls for a WordPress site, using Google Calendar API v3. Controls pulled data from numerous calendars, but presented uniform, cohesive event list. Included a filter control and detail view.

**Technologies – WordPress CMS, PHP, Google API v3**

## PCNA

Diagnosed and fixed problem with Joomla custom module not integrating correctly with the Preventative Cardiovascular Nurses Association's (PCNA) Association Management System (AMS) and MailChimp. When users authenticate against AMS (MemberSuite), their profile details should have been propagated to the local Joomla database, then pushed to the corresponding account in MailChimp. Determined that exception was occurring, but was being ignored. Re-wrote module to work as expected, including letting users know if error occurred. Re-wrote MailChimp integration after determining that module was incomplete.

**Technologies – Joomla! CMS, PHP, MySQL, MemberSuite and MailChimp APIs**

## NACUA

Updated the National Association of College and University Attorneys (NACUA) web site search and legal document search to use their Google Appliance (GA). Legal Documents Sections are divided into arbitrary folder collections, each with its own properties to control how the search works (i.e. to include all child folders or only 1 level). Developed console application to interpret section properties, iterate over included folders according to the rules, and output XML document used for custom web feed for the GA. For the search, users are able to choose which sections to include, and results include link to show highlighted search term in text only view of document (for MS Word and PDF documents). Includes advanced search section and results paging similar to Google.

**Technologies - ASP.Net, MVC, Google Appliance, jQuery**

## BusMe

iOS application which locates and displays on maps WMATA bus stops within a set radius. Selecting a stop shows predicted (not scheduled) next busses. Selecting prediction then displays a map with the bus's location. Includes ability to save favorite stops.

**Technologies – C#, Xamarin.iOS, WMATA API**

## Montgomery Hospice

Sitefinity Content Management System (CMS) 5 implementation with many custom controls, including home page rotator and multiple donation form. Donation forms interfaced with Internet Secure payment gateway.

**Technologies – Sitefinity CMS, ASP.Net, MVC, nHibernate, jQuery**

## AAHRPP

Sitefinity implementation for the Association for the Accreditation of Human Research Protection Programs. Included custom integrations with MS SharePoint and MS Dynamics CRM. Custom search and filtering by tag.

**Technologies – Sitefinity CMS, ASP.Net, OpenAccess, SharePoint REST services, Dynamics REST services**

## TDAMIS II

Two year effort to re-develop a 1980's era 4th Dimension application into a modern web application using ASP.Net MVC framework, nHibernate ORM, and jQuery UI in the browser, the Trade and Development Agency Management Information System (TDAMIS) II brought the US Trade and Development Agency (USTDA) into the 21st century. Over 100 data entry forms used in the application. System generated reports in MS Word and MS Excel format include over 50

predefined reports. Users are also able create dynamic reports by selecting any field for output, then setting criteria on any field. Very complex database with over 100 tables; all data (from the 80's onward) validated and migrated to the new system. Provided end user training and on-site TA.

**Technologies - ASP.Net, MVC, MS SQL Server, nHibernate, jQuery**

### WeatherHood

iOS application which displays weather forecast for the data. Forecast display is truncated to actually important times; going to and from work, lunch, and any meetings in users' calendar. Forecast loads in about three seconds. Includes ability to display hourly forecast, and radar maps.

**Technologies – Objective-C, Weather Underground API**

### Stateside Knowledge Management Portal

Developed web portal for easily viewing intertwined relationships between clients, jurisdictions and issues. Includes a legislative and regulatory mode and ability to add detailed notes, via an in-browser WYSIWYG editor, to any record. Seamlessly links to related StateLink database.

**Technologies – ASP.Net, jQuery, MS SQL Server**

### National 4-H Council Grant Management System

Building off a similar system developed for BGCA (see below – BGCA PRS), this project is also collects the OJJDP mandated performance measures for DOJ grants. Added seamless OpenID authentication and a greater use of AJAX to dynamically save records and load page sections. jQuery theming fully integrated into site.

**Technologies – PHP, JavaScript (jQuery), MySQL**

### HUD REO Matrix

Developed an online tracking system for the acquisition and rehabilitation of Department of Housing and Urban Development (HUD) owned Real Estate Owned (REO) properties at discounted sales prices by public housing authorities. This is a HUD sponsored program (in conjunction with the Office of Management and Budget (OMB)), designed to assist public housing authorities in achieving their goal of providing affordable housing to those in need. The tracking system accounts for multiple potential buyers, keeping a history of those buyers over time. Tracks all relevant dates up to the purchase by the housing authority.

**Technologies – PHP, JavaScript (jQuery), MySQL**

### BGCA Stimulus Application

Developed an online application for the 2009 Boys & Girls Clubs of America (BGCA) Federal Stimulus Funding Application. BGCA submitted an application to the U.S. Department of Justice (DOJ) for ARRA funding on behalf of all Boys & Girls Clubs. The Web-based application collected over 3000 individual applications from member clubs in a single week, verifying all information. Includes administrator sign in for reviewing, ranking, and approving each individual application. Exported all collected information in a format suitable or the BGCA's in-house grant tracking system.

**Technologies – PHP, JavaScript (xajax toolkit), MySQL**

## BGCA PRS – Progress Reporting System

Developed online application that allows recipients of US DOJ Office of Juvenile Justice and Delinquency Prevention (OJJDP) grants to submit required performance measure data. Recipients submit through this same system regardless of the oversight entity (Boys and Girls Clubs of America [BGCA] or FirstPic, Inc.). The application includes real-time error checking and a fully electronic multi-step approval process. Developed a module which allows non-technical site administrators to create and deploy brief questionnaires for select grants. Developed a Windows Service application running on the server which pulls organizational and contact data nightly from the BGCA Insight database via a BGCA hosted web service which keeps the local database up to date. Also includes user interface elements to manually pull current contact information from the same web service. Added financial reporting module which includes the ability for a user to dynamically add and remove columns to a very complex table.

**Technologies – .NET, PHP, JavaScript (jQuery), MySQL**

## KIDS – Key Information Delivery System

Tablet PC application developed for the Child and Family Services Reviews, used on-site for data collection, quality assurance, data transfer, and reporting. System has completely replaced paper forms on-site. Uses a secure wireless network to transfer records via a drag and drop interface and a secure connection to upload records to the central back-end server from on-site. Project also includes complimentary web based application with Administrator, Review Team, Review Tracking, and Final Reports modules. Delivered 12 1½-day training sessions and provided on-site TA for 5 week-long sessions.

**Technologies – .NET, PHP, JavaScript, MySQL**

## Web KIDS - Web based Key Information Delivery System

Developed a Web 2.0 version of just the data collection screens of the KIDS application (see above) for use in an online training. This application was developed to a fully functional (sans login) beta version ready for user testing. The module was developed using the xajax AJAX toolkit to create a nearly identical user experience of the Tablet PC version of the application.

**Technologies – PHP, JavaScript (xajax), MySQL**

## PTD – Performance Tracking Database

Developed fully integrated MS Office application covering complete life-cycle of 20 HUD grant programs, including ARRA grants. Developed module to roll up 6 regional databases into one national database the agency uses for reporting to OMB on PART performance measures. Extensive use of MS Word for mail merges and Excel for analysis with MS Access used for data storage, data entry, queries and reports. Designed and delivered over 30 2-day on-site trainings and 7 2-day on-site TA events. Modified front end to work in a disconnected manner (no linked tables), so database performance would be acceptable over a WAN. Personally maintained this project for about 8 years.

**Technologies – VBA, MS Access, Excel, Word**

## e-Prevention.org

Collection of online databases and tracking systems related to State substance abuse prevention and Synar implementation. The system is comprised of nine modules. Each module is a full-fledged application, with user-friendly data entry forms, data integrity checks, query and search

capability, reports, and data downloads in MS Excel format. The system has integrated help, a single sign on, and multiple security levels.

**Technologies – PHP, JavaScript, MySQL**

### eHERS, eMERS, and DIMS – DAWN Information Management System

Multiple component project which includes two online data collection and reporting applications as well as integrated MS Access and ACT! Databases. For the Office of Applied Science. The electronic Hospital ER Reporting System (eHERS) and the electronic Medical Examiner Reporting System (eMERS) online applications were the main intake tool for the Drug Abuse Warning Network (DAWN) which featured a unique search-as-you-type drug lookup system that utilized a list of over 11,000 drugs (developed before AJAX XMLHttpRequests were supported in browsers). Heavily customized ACT! Database used by field representatives to track participating hospitals and medical examiner visits. Developed Windows application in VB 6 to link key parts of each system.

**Technologies – PHP, JavaScript, VBA, VB, ACT!, MS Access, MySQL**

### Web Based Registration Sites/On-line Surveys

Completed approximately 30 conference registration and survey sites for many government clients, including SSTAP, CHAB, TIPS, NMAC, BGCA, and ONAP. Registration sites include automatic form completion for return users, seamless handling of various levels of support for different attendees, HTML emails sent to participants and coordinator, download of data from server in Excel format for creating participant lists and other meeting materials. Surveys ranged from simple one pagers to complex multiple section evaluation forms with skip patterns customized to user groups.

**Technologies – Classic ASP, PHP, JavaScript, MS SQL Server, MySQL**

### HUD GMC

Developed grant tracking database for HUD's Grants Management Center (GMC). Tracked 12 Public Housing grant programs through the award phase.

**Technologies – VBA, MS Access**

### Employment History

malloryCode (freelance)	2014 – Present	Senior Web Developer
Hodgson Consulting	2010 – 2014	Senior Web Developer
FirstPic Consulting	2007 – 2010	IT Director/Developer
JBS International	2007	Software Development Manager
	2001 – 2007	Senior Programmer
	1998 – 2001	Programmer/Analyst
R. Christopher Goodwin & Associates	1993 – 1998	Archaeologist
Citizens Campaign for the Environment	1989 – 1993	Program Coordinator/Lobbyist
	1987 – 1989	Canvass Director

## Education

BA State University of New York at Geneseo 1986. Major: Anthropology. Minors: Mathematics, Physics.

Two years coursework toward BS in Computer Science, American Institute of Computer Science.

## Academic, Professional, and Honorary Awards

Individual Recipient, 2007 Administration for Children and Families (ACF) Assistant Secretary's Outstanding Contractor Award

Sitefinity Certified Developer

## Software

**Development Environments/Tools:** Visual Studio, XCode, Xamarin Studio, Eclipse (PDT), PHP Storm, MS Office, Firebug, Web Developer Toolbar

**Languages:** C# .Net, JavaScript, Visual Basic for Applications, PHP, Visual Basic 6.0, Classic ASP, SQL, C++

**Frameworks/Libraries:** ASP.Net MVC, jQuery, nHibernate, OpenAccess, KendoUI, xajax, PEAR, WSO2 (PHP), JGraph, Authorize.net payment gateway, FPDF

**Databases:** MySQL, MS SQL Server, MS Access, Oracle, ACT!

**Operating Systems:** Linux, Windows, Mac OS X