

Reed Bertollette

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PROGRAMMING LANGUAGES

OOP Structures/Design
MXML (Flex)
Actionscript 2 & 3 (Flash)
Lingo (Director & Shockwave)
Javascript (& Many JS Frameworks like jQuery, Prototype, Mootools)
VBScript
PHP
ASP
SQL
(some C/UNIX/LINUX)

DEVELOPMENT ENVIRONMENTS

OOP Structures/Design
Flex
Flash
Director
Drupal
XCode

CVS

GIT
Subversion

SERVERS & BROWSERS

LAMP
WAMP
MAMP
CentOS
IE6 thru IE8
Firefox 2 thru 4 (Mac & Win)
Safari (Mac & Win)
Crome (Mac & Win)

GRAPHICS PROGRAMS

Photoshop
Illustrator
Fireworks
Acrobat
(entire Adobe Suite)

DATABASE

MySQL
MSSQL
Filemaker
Access
Custom (using nested objects & arrays)

PROFILE

Developer of interactive learning programs and presentations since 1986. Working as a self employed sub-contractor since 1992 assisting clients with technical abilities ranging from novice to expert.

I am a programmer with a good eye for detail and an extensive knowledge of graphic applications. If needed, I can supply art from a number of artists with whom I collaborate.

Telecommuting from Hawaii has been seamless since moving here in '93.

PROJECT ENVIRONMENTS

Projects incorporating animation, sound, video, and/or databases may use any combination of the following features:

- Compatibility with one or all versions of Windows and/or Macintosh operating systems
- Set-up and management of isp-hosted dedicated or virtual servers
- Single or multi-user environments
- English, foreign, or multi-lingual
- Internet or Intranet
- DVD or CD-ROM
- Dedicated computer (for example, kiosks)

SOME WORK HIGHLIGHTS

GeminiFocus Online Magazine

Jan 2011

Flash AS3, Javascript, & InDesign

Direct Contract

Gemini Observatory regularly publishes a newsletter to share information about new discoveries and techniques. They asked me to come up with a format that would convert their InDesign files into Flash.

Flash interacts with the browser through javascript to allow the magazine to resize based on the browser's window size.

It also downloads pages as they are needed, anticipating which page will be accessed next.

It uses TLF (Text Layout Framework) to allow multiple columns of text to be copied out and simplify formatting.

You can see the first month's version [here](#).

Mt. Elliott Cemetery Association

Dec 2010

Drupal, Javascript, PHP, MSSQL, mySQL

Contract via Big Fuzz

The Mount Elliott Cemetery Association manages five cemeteries in Michigan. They wanted to change content the of their website easily, and allow users to create their own tributes to loved ones who'd recently died. My colleagues at BigFuzz worked up and got approved HTML wireframes. They then contacted me to create the backend. I used Drupal, and created a couple of custom modules to handle the site's features.

This site downloads and imports data into the site's database to allow searching of genealogical records & display of burial schedules. Mt. Elliott's genealogy legacy mssql database has close to half a million records. This size requires the data be pulled and updated in increments of 20K records.

Access to their local database required their website be served from a dedicated server. I chose CentOS5 for the operating system which I configured and continue to maintain.

The online tribute feature displays uploaded photos with captions in a lightbox window. Online tributes are linked to both these listings.

The site features automatic backup.

[The resulting site](#) doesn't look like a standard Drupal site, yet is easy for the client to manage.

American Hospital Association

Aug 2010 - present

AJAX & Javascript Page Templates

Direct Contract

I've been customizing wiki's for Socialtext since 2007 (see below.) One of their clients desired more control over their page's appearance than they generally offer. Socialtext recommended me to the client which resulted in a direct hire by contract (with Socialtext's blessing.)

First we clearly established that my work was separate from Socialtext's responsibility.

American Hospital Association (AHA) had several layouts they wanted for their site, incorporating headings, menus, buttons, and widgets. I created an *edit page* and a *template page* for each layout. Data tables on the *edit pages* that held graphic, text, and links to other pages. Each *template page* has only the url to it's *edit page*. When a user goes to a *template page*, it pulls and arranges the data stored on it's *edit page* using AJAX (aided by jQuery.)

On templates pages with menus, the current page display is rendered before pulling data for the other menu selections. To standardize the user's experience, a cookie is set for the menu selection so that it will be displayed when the user returns to the page via their browser's back button.

AHA incorporated several security features into their site, such a single sign-on allowing their users to access many web applications after entering their user & password only once. All contractors co-operated to troubleshoot issues and make things run smoothly.

AHA has received accolades for this upgrade to their IT services. Their solution has sensitive company information and is hosted on a secure intranet, therefore no demo is available.

Tongal Video Viewer

May 2010

Flash AS3 OOP Update

Contract via Big Fuzz

Tongal.com invites videographers to submit entries to various video contests for fame, good causes, and in some cases cash prizes.

Their legacy video player had a number of issues that they wanted changed. I contacted Big Fuzz for the opportunity.

One challenge of the project is that numerous programmers of varying abilities and styles had worked on the video player before me. It had about 20 classes. There were a few "dead ends" — features that were started, but never finished. They asked me to implement several enhancements to the interactivity of the player.

It was a classic case of sleuthing out what code was really necessary, and writing carefully to enhance it. Wherever possible I cleaned out dead ends and added comments for the next programmers, all the while keeping an eye on the time-clock.

[Here's an example](#) of the resulting player.

When it was finished, I came up with a smaller version to be embedded in facebook using the same source files.

Socialtext Wiki Skins

May 2007 - present

CSS & Javascript Customization

Direct Contract

Socialtext creates social networking environments for corporations. I've been their primary "skinner" for the past 3 years, using javascript and CSS to transform their application to match their clients web environments.

Their application generates server generated web-pages that uses CSS stylesheets to define their appearance. The generated pages contain multiple .css files. I create standard procedures that can be easily updated when the main wiki generator is changed.

I start with their client's existing site or supplied art to replicate their client's branding. All sites must be compatible with IE6, IE7, Firefox (on Windows), Safari & Firefox (on the Mac.)

The generated wikis contain multiple .css files. I create standard procedures that can be easily updated when the main wiki generator is changed.

I've created about 300 separate skins in the first three years we've been working together, many on short notice. It's helped me hone my XHTML skills as well as web coding in general. I've assisted in successful implementation of one major & several minor software upgrades requiring evaluation and timely updating of more than 80 client environments.

For testing beta versions of their product I use Linux command-line access thru an SSH shell, and file transfer via SCP to develop skins and apply changes in a live application environment.

Socialtext introduced me to both Subversion and GIT version control systems. I'm a GIT convert now and use it regularly to speed up the development process.

Sound Reading Solutions

Mar. 2001 - May 2010

Flash, PHP, MySQL, CD-ROM, Director

Direct Contract

Sound Reading has developed a unique system for teaching reading using phonemes (a sound based approach.) I first developed their software as a CD-ROM based product with four versions aimed at 4 age levels.

Each student's scores are recorded, allowing them to continue each session from where they left off. Students work through about 250 flash based exercises to strengthen their automatic responses. Exercises incorporate sound and interactive animation.

In 2003 I developed a multi-user version that resides on a school's server. This version supports multi-level administration passwords giving teachers administrative control of their own students, and allowing for group progress reporting.

They are currently working on an internet application version. You can see shortened examples of some Flash exercises [here](#) & [here](#).

I created a backend for the netapp is written in PHP5 using AJAX and MySQL. I'll be glad to demo this, but I'd like to be on the phone with you to explain the features.

I've been providing telephone support for these products from the beginning. Users reportedly like my relaxed phone manner.

Estreak

September 2009

PHP, MySQL, AJAX, Javascript

Contract via Milgrom & Associates

Having worked with Milgrom & Associates off and on since our first project together in Feb. 2005, they gave me a call when a contractor they hired for a php site got "over his head." I hopped in and finished the project rapidly, even though it meant using their original programmer's coded beginning.

The site is multi-lingual, French and English, and allows dealers to sign up for email notices by storing them in a MySQL database along with categories of products they sell. The client can log in with an admin to approve new dealer requests, prepare mail-merge emails in French or English. Emails welcoming dealers to the system are generated automatically.

To ease the production process, I run a production PHP server capable of serving both PHP4 & PHP5 in my home office.

Gemini Observatory Virtual Tour

Apr. 2001 - present

Director Lingo/UI Design/CD Mastering

Direct Contract

This multi-lingual (English / Spanish) project was developed to educate the public about the Gemini Observatory located on the Big Island of Hawaii. It contains games, interactive animation, narration, and video.

It has been designed so that it can be installed as a stand-alone kiosk, or given away as a CD-ROM. It is cross-platform, runs in all flavors of Windows and Mac OS.

It boasts a news section that can update itself from the Internet. When it's installed as a kiosk, it tracks user use and uploads its data to a server monthly. The kiosk also checks for version updates and auto-upgrades itself when needed.

If you have a broadband connection you can see a shockwave demos of a couple of the sections. They are the [Light Explorer](#), and the [Observation Module](#).

Various Drupal Projects

2008 & 2009

Drupal, Ubercart, Flash, PHP, Javascript

Direct Contract

In 2008 I created Drupal sites for a party rental store in Austin and for an talented Hawaii artist.

The [rental store site](#) uses Ubercart to allow the client to manage estimates for rental orders. It also gives them the ability to add new merchandise without having to know how to code. They also use it for invoicing orders. (It could also be used to manage inventory.) I used custom javascript add Google Analytics to the site.

Henry Bianchini asked if I could help set him up with [a site that he could update himself](#). Drupal turned out to be the solution for him as well. Without coding, he's able to add, order, and remove pictures himself.

Drupal is sometimes the fast solution, [here's a site](#) I threw together to show my family's vacation rental house.

EARLIER EXPERIENCE

Other Projects Include:

- Kiosks for *'Imiloa - Astronomy Center of Hawaii, Muskoka Lakes Museum, & The State Of California*
- Hawaiian Language Based Educational CD-ROM Programs
- CD-ROM Retail T-Shirt Catalog - Self Updating via Internet
- Conversion of Repair Manuals From Paper to CD-ROM Format For *Radius Inc.*
- Computer-Based Training of Object Oriented Programming for *Apple University*
- Sales Presentations for: *Novell; Lockheed, Aerojet and Rust; Winterland*
- Legal Animations for Court Exhibits

Related Employment

- Network, hardware and software technical support for *UC Med Center* (San Francisco, CA)
- Computer consulting for *Pacific Gas and Electric* (San Francisco, CA)
- Started and managed repairs division for *Abacus, Inc.* (San Francisco, CA)
- Developed procedures and systems for delivery and installation of new computers sold by *Abacus, Inc.*
- Star salesperson for *Abacus Inc.*, Dec. 1992

Education

My studies have been music, language and math related at: *Ithaca College* (Ithaca, NY); *Connecticut University* (Stoors, CT); *Luzern Jazzschule* (Lucerne, Switzerland); *Berklee College of Music* (Boston, MA); and *University of Hawaii* (Hilo, HI.)

SAMPLES OF WORK AND CLIENT REFERENCES AVAILABLE UPON REQUEST