CHARLES BROWN-ROBERTS

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Career Overview

Web Developer well versed in structuring, developing and implementing interactive web applications. Results-driven professional with experience in back-end programming, front-end UI, relational databases and development/maintenance of complex and critical enterprise-level systems.

Qualifications

OOP HTML5/CSS3/Javascript Unix Command Line   
Linux Mobile Apps/Web Enterprise-level CMS  
Apache Responsive Design AJAX  
MySQL Adobe Media Server W3C Standards  
PHP5 XML/XSLT MVC Design  
Zend Framework JSON Section 508 Accessibility

Technical Skills

Skills Experience Total Years Last Used

Linux, Apache, MySQL, PHP5 Web Development 10 Used Everyday

Zend Framework Web Applications 7 Used Everyday

HTML5, CSS3, Jquery Web Design 10 Used Everyday

Adobe Media Server, OSMF player Streaming Video 4 Used Everyday

Work Experience

**Video Application**  
<http://www2.csus.edu/video/index/index/cid/31821/vid/734>

I developed a web application that streams university course videos to multiple platforms including desktop, tablets, and smartphones. The backend reads two .csv files on a server that contain university course video metadata. It then parses that file, combines the data and inserts it into a MySQL database.

* Built on Zend Framework, LAMP stack
* One-to-many relationship between course and videos
* Complete Public Front-end and Administrative Back-end
* Authorization and Authentication
* Adobe OSMF 2.0 video player that streams video on desktop, tablet, and smartphones
* Responsive Design
* Modular, using Zend Framework

**University Website**

<http://www.csus.edu>

Lead for University Website Development

* Coded Sac State University website using HTML5, CSS3, and JQuery
* Responsible for ensuring university web and web applications meet Section 508
* Completely rewrote the Information Architecture of our content management system, Cascade, and reduced time for our department to produce a website by over 80%
* Administer Cascade Server <http://www.hannonhill.com/products/>
* Cascade required extensive use of XML/XSLT

**Surveillance Camera Alert System**  
Not publicly available

I developed a web application that receives an alert from campus security cameras in high-risk areas and   
then triggers an audial/visual alert for campus police that indicates what camera and datetime   
the motion was detected. It also logs all alerts.

* Built on Zend Framework, LAMP stack
* Polls Cisco camera application and receives JSON data and then inserts data into the application

**Kurogo Mobile**  
August 2014 launch date  
Presentation I gave at the CATS 2012 Regional Conference  
[http://www.csus.edu/dev/html5slides/going-mobile.html - 1](http://www.csus.edu/dev/html5slides/going-mobile.html#1)

I piloted a Kurogo Mobile Web application project for the university. The product was vetted and   
approved for campus wide distribution beginning August 2014.

* Kurogo Mobile Framework, LAMP stack
* Consumes data from third-party systems, typically in XML format, and parses it into   
  HTML5.

**LOCUS Library Content Management System**  
Not publicly available

I developed a library resource management system. LOCUS was designed to enable the seamless integration of electronic library resources, especially full text database articles from proprietary vendors, into online course environments. LOCUS went live in spring semester 2004 with 8 courses in 6 departments on campus. By fall semester 2008 there were 169 courses in 22 departments and used by over 6000 students.

* Lead programmer of LOCUS Online Memory Palace
* Built on Zend Framework
* MySQL Database
* Developed modular widgets, custom interfaces, and content creation tools using Ajax and PHP

Work History

**Web Accessibility Specialist Oct 2010 to Current**

*California State University, Sacramento - Sacramento, CA*  
The Web Accessibility Specialist provides the Information Resources & Technology division with   
leadership and professional technical expertise to ensure that university web content is equally   
accessible to all students, faculty, staff and community members with disabilities. The incumbent's   
primary focus is on the research, development, evaluation and implementation of accessible web   
design and web-based technologies to assist faculty and students.

**Information Technology Consultant Jul 2007 to Nov 2010**

*California State University, Sacramento - Sacramento, CA*  
Lead Developer, LOCUS Online Memory Palace - Library Content Management System

**Administrative Support Coordinator May 2003 to Jul 2007**

*California State University, Sacramento - Sacramento, CA*Lead Developer, LOCUS Online Memory Palace - Library Content Management System

Education and Training

Bachelor of Arts, History 2002

University of Tennessee - Knoxville, TN 3.5 GPA Graduated Cum Laude  
  
Bachelor of Arts, History 2002 University of Tennessee - Knoxville, TN 3.5 GPA Graduated Cum Laude

Master of Arts, History  
California State University, Sacramento - Sacramento, CA

President, Phi Alpha Theta History Honors Society 2007 to 2008   
Executive Editor, Clio Journal 2008  
Gerald D. Nash History Journal Award (2008) 2nd place

Awards

**2009 CATS Outstanding Technology Professional Award**  
<http://cats.cdl.edu/2008-award-winners>