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I speak fluent english and proficient portuguese.

Expertise

Web programming, multi-tier architectures, RESTful architectures, code validation, quality assurance, best practices, deployment automation, project management, API design.

Programming languages: Expert in PHP, Python and Javascript;

Proficient in Ruby, Bash, Objective-C and Java.

Markup and data interchange languages: XML, XHTML, HTML, HTML5, JSON, CSS, YAML.

Data stores: Expert in MySQL, MongoDB, CouchDB and Memcache;

Proficient in PostgreSQL, SQLite and FireBase.

Web servers and reverse/caching proxies: Apache, Nginx and Varnish.

Web development frameworks (server): Expert in Zend Framework, Django, Flask, Tornado and Node.JS; Proficient in Ruby on Rails and Sinatra.

Web development frameworks (client): ReactJS, Angular, Underscore, Mootools, JQuery, Prototype, ExtJS, JQuery Mobile.

Version Control Systems: Git, SVN and Mercurial.

DevOps technologies: Ansible, Chef, Fabric.

Other tools and technologies: AJAX, web sockets, Vagrant, Phonegap, Photoshop.

Akamai solutions: Dynamic Site Accelerator, NetStorage, Site Shield, Kona Web Application Firewall, Luna.

Hosting and Cloud providers: Rackspace, Akamai, AWS.

Education

Zend Certified Engineer

PHP, PHP 5.3 and Zend Framework.

<http://www.zend.com/en/yellow-pages/ZEND010525>

iOS Development

2011 Training course by The Pragmatic Studio in Reston, Virginia, USA.

Phonegap Development

2010 Webinar by Nitobi.

Zend Framework

2007 Webinar by Zend Technologies.

Visual Basic .Net, Java, Macromedia Dreamweaver, Basic Linux
Administration

2004-2005 Centro de Investigación Cibernética (Cybernetics Research
Center Mexico.)

SuSE Linux

2004 Centro de Innovación y Desarrollo Tecnológico en Computo
(Computing Innovation and Development Center - Instituto Politécnico
Nacional.)

English Language with a Certificate in Advanced English by the
Cambridge University

2001-2003 Centro de Idiomas - Instituto Politécnico Nacional.

Highschool Education with strong Accountancy and IT orientation

2000-2003

Experience

2005-present

Freelance web consultant

- I have done several websites on my own, many of them have now changed or disappeared. I still host many of them in my personal server.
- Latest projects as a freelance:
 - cvegaevents.com
 - pabellones.com.mx
 - carpastrillo.com.mx

2009-present

CTO

Menta Network S.C.

- PHP 5, MySQL, Javascript, Python, Objective-C, Ruby, RoR, Django, MongoDB, CouchDB, Java, Node.JS, etc.
- As CTO I'm responsible to supervise every technological aspect of the company, from hosting contracts, internal tech support, and development hardware, to architecture design, development, quality assurance and automation of maintenance and deployment processes. I'm in charge of end-to-end implementations of different Akamai solutions. I'm also involved in operations and content strategy.
- I was promoted to CTO due to the impact my work had ever since I was hired, and particularly the introduction of a number of technologies/methodologies that contributed to a steady growth in the company's profit and efficiency, strongly focusing in quality: code standards, documentation driven development, unit testing, semantic markup, best practices in web development, usage of different testing environments (testing and staging servers), continuous integration, version control with SVN and then GIT, SEO optimization, CDNs and cloud computing (Akamai, Amazon and Rackspace), etc.
- Akamai implementations for renowned brands:
 - Liverpool.com.mx - The largest upscale department store in Mexico - Website acceleration, log and content delivery, and FEO strategies.
 - Te.gob.mx - Tribunal Electoral (Federal Electoral Tribunal) - Website acceleration, DNS protection, Web Application Firewall, etc. for the 2007 controversial presidential elections.

In collaboration with Akamai directly.

- Coppel.com - Nation-wide department store in Mexico. Website acceleration and content delivery.
- AmericanExpress.com Mexico. Website acceleration and content delivery. In collaboration with project managers at Ogilvy & Mather Mexico.
- Murcielagosfc.com - Website and “electronic couch” platform for the soccer team Murciélagos FC.
 - The electronic couch platform (ECP) allows users and fans to view local matches in real time, chat amongst themselves and take decisions along with the real coach. This is the only team in the world with such platform.
 - The application runs on the Rackspace Cloud to scale horizontally on demand, and uses: Nginx, Python, Flask and CouchDB in the server and Mootools in the client.
- Entutele.com - Mexican TV schedules, currently in a mature version 4.
 - Mobile, tablet, and desktop versions.
 - The site is powered by PHP 5.3, a heavily extended Zend Framework 1.10, MySQL, MongoDB, Memcache, Sphinx search and Mootools.
 - The backend is powered by in-house Python frameworks for XML processing and automated data management.
 - The REST API that serves mobile devices is powered by a small-footprint Zend Framework stack integrated with our main application server.
 - Infrastructure as code with Ansible.
- Entutele.com app for iOS and Android.
 - For version 1, supervised and collaborated in the development of both apps with our mobile dev team in Italy.
 - For the current version 2, developed the iOS app for iPhone and iPad from scratch, and supervised the development for Android.
 - Implemented a simple yet strong data interchange authentication mechanism with the API through the use of hashed requests and Shared Secret Authentication.
 - The app automatically updates its internal catalogs from the server when new information comes out.
 - Localization in spanish, english and italian for version 1. Current version is spanish only.
- Entucine.com - Mexican movie showtimes guide.
 - The site is powered by PHP 5.3, a heavily extended Zend

Framework 1.10, MySQL, Memcache, Sphinx search and Mootools.

- The backend is powered by a Django CMS, in-house Python and Node.JS frameworks for XML processing and web scraping.
- The frontend is an AJAX heavy Javascript application.
- Infrastructure as code with Ansible.
- Rallymexico.com - World Rally Championship events in Mexico.
 - Infrastructure as code with Ansible.
 - Expression Engine extension and customization.
- indigeen.com - Indigeen was a french company dedicated to sell luxury goods worldwide. (Website no longer available.)
 - Supervised the porting of the existing, heavily customized OSCommerce platform to Magento.
 - Helped integrate complex designs into Magento.
 - Helped extend Magento's capabilities to achieve certain tasks.
 - Helped create clear categorizations of content for different targets.

2008

Lead Software Architect

Menta Network S.C.

- PHP 5, MySQL, Javascript, JQuery, Mootools, Zend Framework.
- Architected and developed, along with 3 engineers, an enterprisey CMS sold to clients such as TV Azteca, the second largest TV network in Mexico.
- Imagenzac.com.mx - Mexican newspaper. (The website has since been changed.)
 - Developed a CMS for the website, featuring:
 - Integration with their newspaper systems.
 - Taxonomy scheme.
 - Polls.
 - User login and comments.
 - Authored the frontend in XHTML and CSS.
- Imparted a 50 hour course (5 hours a day for 2 weeks) on Zend Framework 1.8 to 11 TV Azteca engineers in charge of maintaining all their web assets.

2007

Frontend Engineer

Menta Network S.C.

- PHP 5, MySQL, Javascript, Mootools, XHTML, CSS.
- Helped build the leading e-cards website in Mexico: gusanito.com.
 - Authored both frontend and backend from photoshop files into XHTML and CSS.
 - Developed the whole frontend using in-house frameworks.
- Authored several websites from photoshop into XHTML, CSS and Javascript for clients.

2006

Head of Development in the Dirección de Soporte Tecnológico de la Dirección General de Cooperación Técnica y Científica (Technical and Scientific Cooperation Department's Technological Support Group)

Secretaría de Relaciones Exteriores (Ministry of Foreign Affairs) / Organization of American States.

- PHP 5, Javascript, Visual Basic .NET, MySQL, MS SQLServer 2005, MS Access, XHTML, CSS.
- managed a team of 3 programmers dedicated to build tools to help information exchange amongst organizations subscribed to international cooperation treaties with Mexico.
- ported a Windows/VB.NET/SQLServer system for international cooperation (used worldwide by the mexican government) to Open Source technologies.

2005

Web Developer

Petróleos Mexicanos PEMEX.

- PHP 4, MySQL, MS Access.
- Coordinated and participated in the development of several intranet systems to manage employees information.

2004-2005

Web Developer

Quiminet.com - Quiminet S.A. de C.V.

- PHP 4, MySQL, Javascript.
- Maintained and developed the company's website and content management systems dedicated to advertise and sell business opportunities.

2004

Junior Web Developer

Digitae S.A. de C.V.

- PHP 4, MySQL
- Maintained customers' websites.
- Maintained e-commerce systems developed in-house.

Personal interests

Music production, traveling, reading, learning new languages.