

MARCO D. ARMENT

Pittsburgh, PA
jobs@marco.org
Personal website: www.marco.org

PROFILE

Software engineer with a strong background in enterprise-class C on Unix and Windows, and secondary focuses on XML, XSLT, PHP, and Microsoft technologies. Fast learner open to all technologies, platforms, and languages, because different tools are best suited to different tasks.

EXPERIENCE

Software Engineer, Vivísimo, Inc. — 2004-2006 (Present)

Vivísimo Velocity: Enterprise search and clustering

Designed and implemented entire features for Vivísimo's enterprise software suite:

- Automatic web-page body-text analyzer, selecting the DOM nodes most likely to contain body text, excluding navigation blocks, headers, footers, and purely structural elements.
- Complete task scheduler, including full task management, a complete web interface, and output parsing.
- Custom module for Siebel CRM On Demand integration.
- Custom file format converters, including MySQL backups, iCalendar (.ics), and Microsoft Cabinet (.cab).
- Managed C++ (.NET) API wrapper for .NET customers to integrate Velocity with custom applications.

Code was written primarily in ANSI C with extensive use of XML and XSLT. Compiled simultaneously for Linux, Windows, and Solaris. All code, often as multithreaded services and CGI programs, runs indefinitely on high-availability, high-load servers without service interruptions, crashes, or memory leaks.

Clusty.com: Consumer metasearch and clustering site

Designed and implemented:

- Automatic Wikipedia conversion and search framework using Bash scripting, PHP, and XSL.
- Clusty Toolbar for Firefox, downloaded over 50,000 times, and used by over 3,000 unique visitors each day to search Clusty. Written in XUL and Javascript without prior experience in either language.

Other duties

Served as system and network administrator simultaneously with development duties.

- Purchased, custom-built, and maintained high-load development and production servers, including live Clusty search servers.
- Supported, maintained, and grew the IT policies and infrastructure, including all employee PCs, as the company size increased from 13 to 30 employees.

Rewrote documentation to correct writing errors, eliminate redundant text, and increase readability. Instituted and enforced writing style guidelines for all professional communication. Performed final copy editing on company documents whenever possible.

Summer Intern, Nationwide Financial, Inc. — Columbus, Ohio — 2002

Designed and implemented an internal Excel VBA product to drastically reduce labor in the analysis of call-center logs.

Marco.org personal website — 2000-2006

- Custom CMS and layout using LAMP (Linux, Apache, MySQL, PHP) with XHTML and CSS.
- Code-level integration with phpBB and PunBB for shared authentication, user alerts, and layout consistency.
- Version control with external Subversion (SVN), including database contents. Entire site is installed on a new server with 4 commands.
- Managed 3 contributing writers, performing copy editing before publication.

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(CONTINUED)

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EDUCATION

B.S. in Computer Science, 2004 — Allegheny College — Meadville, Pennsylvania

- Association for Computing Machinery (ACM) member.
- Founding Father, local Phi Delta Theta Fraternity chapter. Leadership training and experience.

Senior Thesis: *Analysis of Lossless Audio Compression Algorithms*

- Compared and tested existing lossless audio compression formats.
- Designed and implemented a new format with an original algorithm utilizing linear-regression curves and entropy coding.

SKILLS

- Ability to learn new languages and technologies quickly.
- Extensive experience with C, PHP, XML, XSLT, XPath, XHTML, HTML, and CSS.
- Familiar with C++, Java, C#, VB, Objective-C, and others.
- Personal projects using the OpenGL, Direct3D, Cocoa, and Swing APIs.
- Abilities with a diverse set of language types and features, including high-level and low-level, functional and procedural, web-based and local, interpreted and compiled, statically and dynamically typed.
- Strong experience in cross-platform development, deployment, and support.
- Capable of working in development environments using any tools and any operating system, with strongest experience using OS X and Windows clients with Linux servers and command-line tools. Comfortable editing in anything from *vi* to Microsoft Visual Studio and Xcode.
- Extensive writing and communication experience. Always writing and submitting my ideas to online criticism to improve my style, consider and refine my viewpoints, and broaden my knowledge.
- Wide range of side interests that can occasionally bring value to my job, including audio and video production and editing, graphic design and manipulation, publishing, and photography.

Further details and professional references available upon request.