

JOSEPH M. GALLO

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TECHNICAL KNOWLEDGE

Java, Python, Perl, PHP, C++, C, Apache, Tomcat, MVC, JUnit, Cactus, Ant, JavaScript (jQuery, Dojo), Ajax, Web Services (REST, SOAP), XML, JSON, HTML, CSS, SVN, Git, PDO, Oracle, MySQL, PostgreSQL, SQLite, Trac, Nagios, NSIS, Wise, Regex, Scheme, MATLAB, ARM Assembly, Linux, Windows

WORK-RELATED EXPERIENCE

Programmer/Analyst (Berkeley, CA : August 2008 - April 2010)

UC Berkeley Graduate Division (<http://grad.berkeley.edu>)

- Worked on [GLOW](#), a J2EE web app with Oracle back-end that provides graduate student-related information and services to students, faculty, and staff.
- GLOW received the Larry L. Sautter Award for Innovation in Information Technology.
- Worked on several different GLOW projects including online fellowship competition, compliance reports, departmentally restricted awards, and a fee remissions payment system.
- Wrote customized Trac LDAP plugin in python.
- Wrote series of Jakarta Cactus unit tests.
- Migrated from Jaguar server to Apache/Tomcat.

Programmer [Contract] (San Francisco, CA : April 2008 - August 2008)

CherryBlossoms (<http://www.blossoms.com/>)

- Wrote web-based chat with LAMP backend.

Askmoses (<http://www.askmoses.com/>)

- Wrote popup dialog allowing user to submit question.

ireminder (<http://ireminder.com/>)

- Refactored site code (php/html).

Software Developer (San Francisco, CA : September 2007 - March 2008)

blinkx, Inc. (<http://www.blinkx.com>)

- Worked on blinkx beat, an interactive client application that brings latest video content from blinkx site to the desktop. Application was done in C++, using Win32 API, and the installer in NSIS.
- Helped merge blinkx beat with pico, an application that shows videos related to contents of viewed web page. Used Ajax, CSS, HTML for the front-end and converted pico's installer, written in Wise, to NSIS.
- Worked on Firefox extension that uses DownloadHelper to extract media source url's of videos normally unobtainable by usual means (HTML, XML).
- Wrote several web crawlers in perl to fetch video content from numerous sites. Maintained media content via MySQL.

Software Developer / Research Assistant (Amherst, MA : 2006 - 2007)

Professors Ed Riseman and Allen Hanson as [NSF-funded] ASSIST Project leaders

- Designed and developed address book application intended for elderly users, with simple Java Swing GUI front-end, featuring large accessible widgets and SQLite database back-end.
- Helped integrate suite of applications (fall detection, object finder, videophone, calendar, address book) intended to prolong an elderly user's ability to live independently in a setting of his/her choice.

Programmer / Research Assistant (Amherst, MA : 2006 - 2007)

Professor Allen Hanson as Project Advisor, Grad Student Vidit Jain

- Worked on and tested hyperfeature based face recognition system, already implemented by grad student at the time, with regard to its possible applications in the ASSIST Project.
- Added XML functionality to conveniently parse identifier generator parameters and model image list.
- Assisted in conversion of MATLAB to C++ (OpenCV) and validation of converted code.

Programmer (Amherst, MA : Fall 2004)

Professor Allen Hanson as Independent Study Advisor

- Designed and developed Java Swing GUI application illustrating generation and traversal of a maze using recursive backtracker algorithm and the reflected changes to underlying stack data structure.

FUN-RELATED EXPERIENCE

- Wrote video bookmark system using PHP, PDO, PHP-ffmpeg, SQLite, VLC web plugin, jQuery, HTML, CSS.
- Working on an HTML5 canvas adaptation of puzzle game Chip's Challenge. Includes map creator/editor.
- Wrote IRC bot in python that hooks into BART (Bay Area Rapid Transit) web service and provides ETA info given params.
- Built a [TV-B-Gone](#) universal remote device.
- Built a [Minty Boost](#), a battery-powered USB charger.
- Built a [Fuzebox](#), an open source 8-bit game console.
- Continuously solving Project Euler problems using python.

EDUCATION

University of Massachusetts Amherst (Amherst, MA : 2003 - 2007)

Bachelor of Science, May 2007

Double Major in Computer Science and Mathematics

Mathematics Concentration in Mathematical Computing

Graduated Cum Laude with Commonwealth College Honors

Departmental Honors in Computer Science

GPA: 3.49