

Shaoting Cai

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EDUCATION

- University of San Francisco, San Francisco, CA, Aug 2007- May 2009
M.S., Computer Science with Merit Scholarship, 3.9 GPA.
- East China Normal University, Shanghai, China, Sep 2002 – May 2006
B.S., Computer Science

RESEARCH PROJECTS

ANTLR gSync

<http://antlr.org/wiki/display/ANTLR3/gDiff+-+Grammar+Diff+Tool>

gSync is a tree-based 3-way diff/merge GUI tool for ANTLR v3 grammars. Compared to a text-based diff algorithm, this tree-based one does better on fuzzy matching, pattern recognition, false-change reduction and version synchronization.

ANTLR gUnitEditor

<http://antlr.org/wiki/display/ANTLR3/gUnitEditor+-+A+Swing+GUI+for+gUnit>

gUnitEditor is a Java Swing GUI for creating, editing and running gUnit test cases for ANTLR v3 grammars.

Programming Language Projects

- Implemented a tree-based interpreter for a simple-Java which does symbol table management and execution scope lookup during AST walking.
- Implemented a translator that translates Closure+Java to pure Java.
- Implemented a native code compiler for simple-C using LLVM.

Gmail-like web mail project in Java & Stringtemplate

http://www.caichoi.com/mediawiki/index.php?title=Webmail_Project

WORK EXPERIENCE

Aug 2006 – Aug 2007, Software Engineer

Shanda Interactive Entertainment, Shanghai, China

- Participated in designing and developing an In-game Advertising system. Implemented an XML based editor GUI using C++ & Delphi.
- Implemented a state-event-oriented scripting language. The assembler and VM are written in C++. The translator to Lua is implemented using ANTLR.
- Utility application written in Delphi: common game loader, an automated Web Service pressure testing tool, CPU model & network checking plugins for NSIS.
- Web developing: developed a company recruiting MIS and a malicious software tracking system in L.A.M.P., setting up and managing the company knowledge-base Wiki.

June 2005 – Feb 2006, Research Assistant

Computer Science in East China Normal University

- Implemented a UI designer for the computer-based training & testing software. The tool can automatically duplicate Windows application GUI, edit layout and add test data to the components.

FIELD WORK

Developing and managing a fan's site at: www.samuel tai.com using PHP, MySQL, XmlRPC, Adobe Flex, AJAX, CSS

- Message board: <http://www.caichoi.com/hs/bbs/MessageBoard.html>
- Gallery : <http://www.caichoi.com/hs/gallery/GalleryApp.html>
- CMS: <http://www.caichoi.com/joomla/>