

Lei Cao

Senior Software Design Engineer

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Work & Project Experience

MicroStrategy, 2010.8 - Present:

Senior Software Design Engineer

- * Key programmer on the Business Intelligence software for data analysis and visualization on multiple platforms, and Key programmer on the Infrastructure of the company:
- * Migrated SCM tool from ClearCase to Git. Customize Git for multi-repo management([google-repo](#)) and binary optimization([git-fat](#)), contributed issues fixing for the open source migrating tool([git-cc](#))
- * **MicroStrategy Desktop** in Windows and Mac version, which is a desktop app for data analysis and visualization using [CEF](#) / UIWebView from multiple data source(local file/database/Internet/our server). Worked on almost all aspects of this product and Fixed several critical crash in release build/specific machine/multiple users case.
- * **MicroStrategy** in HTML5 version. Key designer and programmer on server side, which generates JSON and provides REST-like API for clients. Made big progress in program stability and performance (JSON size is reduced by 15%).
- * **MicroStrategy Mobile** in iOS & Android app. Client side programmer on the cross-platform C/C++ code (accessed by Objective C and JNI respectively), to provide platform & backward compatibility, and support all kinds of user manipulations. Also some GUI feature such as [Facebook Native login](#) to make the login process faster and safer.
- * Investigated & fixed 1000+ issues on iOS/Android/Flex/Desktop App, experienced debugging skills and good understanding on the BI workflow in multi-platforms

Research of Chinese video search technology (National 985 project), 2007.10 - 2008.05

- * Obtained the URL of videos from the web pages containing videos. The main methods including analyzing the HTML code of web pages, sniffing data packets passing through gateway and asynchronous pluggable protocols.
 - * Do a wide survey of existing methods, use a [new technique](#) to parse video URL, and finish the Demo.
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Education

- * **Peking University**, M.S. Application of Computer Software, 2007-2010.
 - * **Nanjing University**, Bachelor (GPA 4.36/5). Computer Science & Technology, 2003-2007.
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Personal Skills

- * **Language:** (proficient) C/C++, Matlab; (Good) Java, Python, Objective-C, JavaScript, \LaTeX , C++/CLI, ActionScript, Scheme
 - * **Linux** user since 2007, familiar with common tools such as Bash, AWK, Sed, etc
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Awards

- * Finalist in 2013 MicroStrategy Hackathon, 2013.12
- * Rookie Of the Year (best of the new hires of the year), MicroStrategy Inc., 2012.1
- * Second Place in TRECVID 2009 (an International video retrieval contest), 2009.10
- * First-Class People's Scholarship, Nanjing University, 2005-2006
- * National Second Prize, China Undergraduate Mathematical Contest in Modelling, 2005.10