

Lei Cao

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Work & Project Experience

Work in MicroStrategy, 2010.8 - Present:

Senior Software Design Engineer

Key programmer on the Business Intelligence software for data analysis and visualization on multiple platforms:

MicroStrategy Desktop in Windows and Mac version. On some GUI feature and controller work accessing backend data. Fixed several 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 Android app. Client side programmer on Object Model and data organization.

MicroStrategy Mobile in iOS app. Client side key programmer on Object Model and data organization. Facebook native login for **MicroStrategy Mobile** which made the login process faster and safer.

The contest of TREC Video Retrieval Evaluation (TRECVID), 2008.05 - 2009.9

Be in charge of the low-level feature extraction and analysis, and the study of feature and classifier fusion methods

This is the base work of TRECVID, which provides more distinguishable image features for classifiers. Analyzing and improving the features by different concepts, and do deep research on the fusion of classifiers to improve the final performance.

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

Parsing the URL of videos from the web pages containing videos. The main methods include 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.

Education

M.S. Application of Computer Software, Peking University, 2007-2010.

Bachelor (GPA 4.36/5). Computer Science & Technology, Nanjing University, 2003-2007.

Personal Skills

Language: (Good) C/C++, Matlab; (Basic) Java, Objective-C, JavaScript, C++/CLI, ActionScript, Latex, AWK, Scheme

Linux user since 2007

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