

# Taolun Chai

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## Education:

<b>New York University</b>	2010 - Present
Master Student in Computer Science	Expected: May, 2012
<b>Southern Polytechnic State University</b>	2008 - 2010
Bachelor of Science in Computer Science	Graduated with Honors
<b>Northeast Normal University</b>	2006 - 2010
Bachelor of Science in Computer Science	Graduated

## Course Work:

- Algorithm
- Programming Languages
- Open Source Tools
- Operating System
- Financial Computing
- Distribute Computing

## Qualifications:

**Programming Languages:** C++, Java, C, C#, Python, Perl, SQL  
**Editors and Tools:** Vim, GCC, GDB, MySQL, Microsoft Visual Studio, CMake, L<sup>A</sup>T<sub>E</sub>X  
**Version Control System:** Git, SVN  
**Operating System:** Linux, Mac OS X, Windows

## Work Experience:

**Shutterstock Images LLC** Software Engineer Intern  
Development Environment: C/C++, Perl on Linux Summer 2011

- Designed and implemented a customized Photo analysis library for automatic detect and recognize given arbitrary image.
- Based on the library, designed and implemented the prototype of image search and auto key-wording system.
- Helped updating search engine of freestock.com.

**Southern Polytechnic State University** Research Assistant  
Development Environment: C#, matlab on Windows Spring 2009 through Spring 2010

- Participated then led the FaceTrace project, which apply face recognition technology on identify person for access control purpose. Helped delivered the distributed version on time. Designed and implemented the hand-held version system.
- Published "An improvement on the modified gradient method for face localization" on IEEE Southeast-Con 2010 and presented a lecture on the conference.

## Other Projects:

**On-line Java Instant Assessment System** Spring 2010

- Applied the Unit test idea on automatically collect and grading assignments. Utilized by professors at SPSU serving all level Java programming course.
- Published "Design of Online Runtime and Testing Environment for Instant Java Programming Assessment" on 2010 7th International Conference on Information Technology.

**Web-based Ontology for Vulnerability Management** Fall 2009

- By analyzing the holistic vulnerability information with given security requirements, provides a quantitative score for the evaluated software product.
- Offers recommendation on software vulnerability control to achieve ISA (Information Security Automation).

## Activities:

SPSU Honors Student.  
Member of Alpha (National College Honor Scholarship Society).  
SPSU Computer Science Departement Dean's List.  
First Prize of ACM/ICPC 2008 Northeast China Part Region Site.  
First Prize of ACM/ICPC 2008 Jilin Region Site.