# Taolun Chai

Address: 556 main st, Apt 104, New York, NY.     Tel: (414)-530-4932     E-mail: tc1112@nyu.edu

**Education:**

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|---|---|
| **New York University** | 2010 - Present |
| Master Student in Computer Science | Expected: May, 2012 |
| **Southern Polytechnic State Unversity** | 2008 - 2010 |
| Bachelor of Science in Computer Science | Graduated with Honors |
| **Northeast Normal University** | 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, LaTeX
**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 anlysis 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).

**Awards:**

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.